



MARIO SOBERON CHAVEZ

Datos Generales

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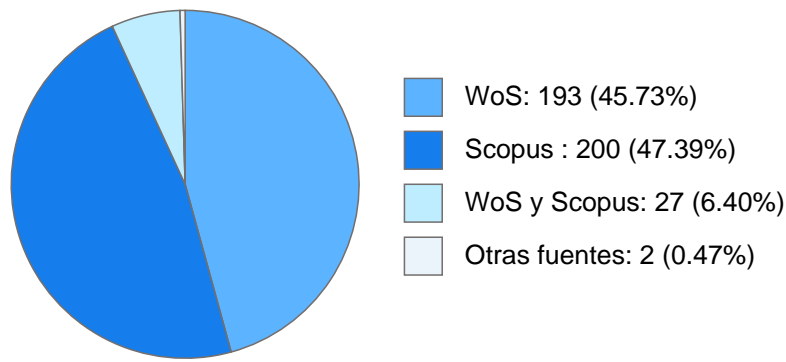
Estímulos, programas, premios y reconocimientos

SNI III 2011 - VIGENTE
SNI II - 2010
PRIDE D - VIGENTE

MARIO SOBERON CHAVEZ

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	JAK/STAT signaling regulated intestinal regeneration defends insect pests against pore-forming toxins produced by <i>Bacillus thuringiensis</i>	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Zeyu Wang et al.	PLOS PATHOGENS	2024
2	Silencing Ditylenchus destructor cathepsin L-like cysteine protease has negative pleiotropic effect on nematode ontogenesis	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Huang G. et al.	SCIENTIFIC REPORTS	2024
3	A concept for international societally relevant microbiology education and microbiology knowledge promulgation in society	MARIO SOBERON CHAVEZ FRANCISCO ROJO CALLEJAS Timmis K. et al.	MICROBIAL BIOTECHNOLOGY	2024
4	CRISPR-Cas9 knockout of membrane-bound alkaline phosphatase or cadherin does not confer resistance to Cry toxins in <i>Aedes aegypti</i>	SABINO PACHECO GUILLEN JORGE FELIX SANCHEZ QUINTANA ISABEL GOMEZ GOMEZ et al.	PLOS NEGLECTED TROPICAL DISEASES	2024
5	Performance insights into spray-dryer microencapsulated <i>Bacillus thuringiensis</i> cry pesticidal proteins with gum arabic and maltodextrin for effective pest control	ISABEL GOMEZ GOMEZ MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA et al.	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	2024

MARIO SOBERON CHAVEZ

6	Bacillus thuringiensis Cry9Aa Insecticidal Protein Domain I Helices $\alpha 3$ and $\alpha 4$ Are Two Core Regions Involved in Oligomerization and Toxicity	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA He X. et al.	JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	2024
7	Mode of action of Bacillus thuringiensis Cry pesticidal proteins	MARIA ALEJANDRA BRAVO DE LA PARRA SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ et al.	ADV INSECT PHYSIOL	2023
8	A major conformational change of N-terminal helices of Bacillus thuringiensis CryIAb insecticidal protein is necessary for membrane insertion and toxicity	SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ MARIO SOBERON CHAVEZ et al.	FEBS JOURNAL	2023
9	Insect chaperones Hsp70 and Hsp90 cooperatively enhance toxicity of Bacillus thuringiensis CryIA toxins and counteract insect resistance	BLANCA INES GARCIA GOMEZ MARIO SOBERON CHAVEZ Sánchez T.A. et al.	FRONTIERS IN IMMUNOLOGY	2023
10	Development of an Online Genome Sequence Comparison Resource for Bacillus cereus sensu lato Strains Using the Efficient Composition Vector Method	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Kui Wang et al.	Toxins	2023
11	Helicoverpa armigera GATAe transcriptional factor regulates the expression of Bacillus thuringiensis CryIAc receptor gene ABCC2 by its interplay with additional transcription factors	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Wei W. et al.	PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY	2023
12	Structural changes upon membrane insertion of the insecticidal pore-forming toxins produced by <i>Bacillus thuringiensis</i>	SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ LUCERO YAZMIN RIVERA NAJERA et al.	Frontiers In Insect Science	2023
13	Can microbial-based insecticides replace chemical pesticides in agricultural production?	MARIO SOBERON CHAVEZ Bravo A.	MICROBIAL BIOTECHNOLOGY	2023
14	A versatile contribution of both aminopeptidases N and ABC transporters to Bt CryIAc toxicity in the diamondback moth	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Dan Sun et al.	BMC BIOLOGY	2022
15	MAPK-mediated transcription factor GATAd contributes to CryIAc resistance in diamondback moth by reducing PxmALP expression	MARIO SOBERON CHAVEZ Le Guo Zhouqiang Cheng et al.	PLOS GENETICS	2022

MARIO SOBERON CHAVEZ

16	Bacillus thuringiensis CryIAc Protoxin and Activated Toxin Exert Differential Toxicity Due to a Synergistic Interplay of Cadherin with ABCC Transporters in the Cotton Bollworm	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Liao C. et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2022
17	Mining versus in vitro evolution for the selection of novel microbial insecticidal proteins	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ	MICROBIAL BIOTECHNOLOGY	2022
18	A single transcription factor facilitates an insect host combating Bacillus thuringiensis infection while maintaining fitness	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Guo Z. et al.	NATURE COMMUNICATIONS	2022
19	Bacillus thuringiensis CryIAb Domain III beta-16 Is Involved in Binding to Prohibitin, Which Correlates with Toxicity against Helicoverpa armigera (Lepidoptera: Noctuidae)	ISABEL GOMEZ GOMEZ SABINO PACHECO GUILLEN MARIO SOBERON CHAVEZ et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2021
20	Bacillus thuringiensis cry toxin triggers autophagy activity that may enhance cell death	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Yongbo Yang et al.	PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY	2021
21	Two ABC transporters are differentially involved in the toxicity of two Bacillus thuringiensis CryI toxins to the invasive crop-pest Spodoptera frugiperda (J. E. Smith)	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Minghui Jin et al.	PEST MANAGEMENT SCIENCE	2021
22	In vivo nanoscale analysis of the dynamic synergistic interaction of Bacillus thuringiensis CryIIAa and CytIIAa toxins in Aedes aegypti	ADAN OSWALDO GUERRERO CARDENAS JORGE GODINEZ SANCHEZ SABINO PACHECO GUILLEN et al.	PLOS PATHOGENS	2021
23	Nutrient conditions determine the localization of Bacillus thuringiensis Vip3Aa protein in the mother cell compartment	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Wang Z. et al.	MICROBIAL BIOTECHNOLOGY	2021
24	SfABCC2 transporter extracellular loops 2 and 4 are responsible for the CryIFa insecticidal specificity against Spodoptera frugiperda	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Liu Y. et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2021
25	Rapid spread of a densovirus in a major crop pest following wide-scale adoption of Bt-cotton in China	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Yutao Xiao et al.	eLife	2021

MARIO SOBERON CHAVEZ

26	Bacterial Toxins Active against Mosquitoes: Mode of Action and Resistance	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Silva-Filha M.H.N.L. et al.	Toxins	2021
27	Synergistic resistance of <i>Helicoverpa armigera</i> to Bt toxins linked to cadherin and ABC transporters mutations	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Dandan Zhang et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2021
28	The regulation landscape of MAPK signaling cascade for thwarting <i>Bacillus thuringiensis</i> infection in an insect host	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Guo Z. et al.	PLOS PATHOGENS	2021
29	Systemic mitochondrial disruption is a key event in the toxicity of bacterial pore-forming toxins to <i>Caenorhabditis elegans</i>	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Jianwei Shi et al.	ENVIRONMENTAL MICROBIOLOGY	2021
30	Whole Genome Sequencing Analysis of <i>Bacillus thuringiensis</i> GR007 Reveals Multiple Pesticidal Protein Genes	SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ MARIO SOBERON CHAVEZ et al.	FRONTIERS IN MICROBIOLOGY	2021
31	GATAe transcription factor is involved in <i>Bacillus thuringiensis</i> CryIAc toxin receptor gene expression inducing toxin susceptibility	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Wei W. et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2020
32	Comprehensive analysis of CryIAc protoxin activation mediated by midgut proteases in susceptible and resistant <i>Plutella xylostella</i> (L.)	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Guo Z. et al.	PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY	2020
33	Reduced Expression of a Novel Midgut Trypsin Gene Involved in Protoxin Activation Correlates with CryIAc Resistance in a Laboratory-Selected Strain of <i>Plutella xylostella</i> (L.)	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Gong L. et al.	Toxins	2020
34	Identification of CryIAh-binding proteins through pull down and gene expression analysis in CryIAh-resistant and susceptible strains of <i>Ostrinia furnacalis</i>	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Shabbir M.Z. et al.	PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY	2020
35	Oligomerization is a key step for <i>Bacillus thuringiensis</i> CytIAa insecticidal activity but not for toxicity against red blood cells	JORGE GODINEZ SANCHEZ MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2020

MARIO SOBERON CHAVEZ

36	Functional Bacillus thuringiensis Cyt1Aa Is Necessary To Synergize Lysinibacillus sphaericus Binary Toxin (Bin) against Bin-Resistant and -Refractory Mosquito Species	SABINO PACHECO GUILLEN MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2020
37	The CRISPR-Cas systems were selectively inactivated during evolution of Bacillus cereus group for adaptation to diverse environments	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Ziqiang Zheng et al.	ISME JOURNAL	2020
38	The Cadherin Protein Is Not Involved in Susceptibility to Bacillus thuringiensis Cry1Ab or Cry1Fa Toxins in Spodoptera frugiperda	ISABEL GOMEZ GOMEZ MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ et al.	Toxins	2020
39	The Cyt1Aa toxin from Bacillus thuringiensis inserts into target membranes via different mechanisms in insects, red blood cells, and lipid liposomes	SABINO PACHECO GUILLEN MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	2020
40	Characterization of two novel bacillus thuringiensis Cry8 toxins reveal differential specificity of protoxins or activated toxins against chrysomeloidea coleopteran superfamily	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Shu C. et al.	Toxins	2020
41	Rearrangement of N-terminal α -helices of bacillus thuringiensis Cry1Ab toxin essential for oligomer assembly and toxicity	SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ JORGE GODINEZ SANCHEZ et al.	Toxins	2020
42	Bacillus thuringiensis Cry1Ab Domain III β -22 Mutants with Enhanced Toxicity to Spodoptera frugiperda (J. E. Smith)	ISABEL GOMEZ GOMEZ MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2020
43	Coexistence of cry9 with the vip3A Gene in an Identical Plasmid of Bacillus thuringiensis Indicates Their Synergistic Insecticidal Toxicity	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Zeyu Wang et al.	JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	2020
44	Bacillus thuringiensis targets the host intestinal epithelial junctions for successful infection of Caenorhabditis elegans	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Wan L. et al.	ENVIRONMENTAL MICROBIOLOGY	2019

MARIO SOBERON CHAVEZ

45	The Cadherin Cry1Ac Binding-Region is Necessary for the Cooperative Effect with ABCC2 Transporter Enhancing Insecticidal Activity of Bacillus thuringiensis Cry1Ac Toxin	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Ma Y. et al.	Toxins	2019
46	Insect hsp90 chaperone assists bacillus thuringiensis cry toxicity by enhancing protoxin binding to the receptor and by protecting protoxin from gut protease degradation	BLANCA INES GARCIA GOMEZ MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ et al.	Mbio	2019
47	Cell lines as models for the study of Cry toxins from Bacillus thuringiensis	MARIO SOBERON CHAVEZ BLANCA INES GARCIA GOMEZ JORGE FELIX SANCHEZ QUINTANA et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2018
48	Characterization of the Cry1Ah resistance in Asian corn Borer and its cross-resistance to other Bacillus thuringiensis toxins	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Shabbir M.Z. et al.	SCIENTIFIC REPORTS	2018
49	Cry64Ba and Cry64Ca, two ETX/MTX2-type Bacillus thuringiensis insecticidal proteins active against hemipteran pests	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Liu Y. et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2018
50	Engineering Bacillus thuringiensis Cyt1Aa toxin specificity from dipteran to lepidopteran toxicity	ISABEL GOMEZ GOMEZ SABINO PACHECO GUILLEN HUMBERTO FLORES SOTO et al.	SCIENTIFIC REPORTS	2018
51	Helix alpha-3 inter-molecular salt bridges and conformational changes are essential for toxicity of Bacillus thuringiensis 3D-Cry toxin family	SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ JORGE FELIX SANCHEZ QUINTANA et al.	SCIENTIFIC REPORTS	2018
52	A single amino acid polymorphism in ABCC2 loop 1 is responsible for differential toxicity of Bacillus thuringiensis Cry1Ac toxin in different Spodoptera (Noctuidae) species	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Liu L. et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2018
53	Specific binding between Bacillus thuringiensis Cry9Aa and Vip3Aa toxins synergizes their toxicity against Asiatic rice borer (Chilo suppressalis)	SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ MARIO SOBERON CHAVEZ et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	2018
54	Spodoptera frugiperda (J. E. Smith) aminopeptidase N1 is a functional receptor of the Bacillus thuringiensis Cry1Ca toxin	ISABEL GOMEZ GOMEZ RICARDO ALFREDO GRANDE CANO JORGE FELIX SANCHEZ QUINTANA et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2018

MARIO SOBERON CHAVEZ

55	Enhancement of <i>Bacillus thuringiensis</i> Cry1Ab and Cry1Fa toxicity to <i>Spodoptera frugiperda</i> by domain III mutations indicates there are two limiting steps in toxicity as defined by receptor binding and protein stability	ISABEL GOMEZ GOMEZ JORGE GODINEZ SANCHEZ MARIA ALEJANDRA BRAVO DE LA PARRA et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2018
56	Identification of midgut membrane proteins from different instars of <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) that bind to Cry1Ac toxin	ISABEL GOMEZ GOMEZ JORGE FELIX SANCHEZ QUINTANA MARIO SOBERON CHAVEZ et al.	PLOS ONE	2018
57	Evaluation of the Impact of Genetically Modified Cotton After 20 Years of Cultivation in Mexico	MARIO SOBERON CHAVEZ ENRIQUE SCHEINVAR GOTTDIENER Martha G. Rocha-Munive et al.	Frontiers in Bioengineering and Biotechnology	2018
58	The C-terminal protoxin region of <i>Bacillus thuringiensis</i> Cry1Ab toxin has a functional role in binding to GPI-anchored receptors in the insect midgut	RICARDO ALFREDO GRANDE CANO MARIO SOBERON CHAVEZ ISABEL GOMEZ GOMEZ et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	2018
59	Identification of <i>Bacillus thuringiensis</i> Cry1AbMod binding-proteins from <i>Spodoptera frugiperda</i>	BLANCA INES GARCIA GOMEZ ISABEL GOMEZ GOMEZ MARIA ALEJANDRA BRAVO DE LA PARRA et al.	Peptides	2017
60	Identification of <i>Bacillus thuringiensis</i> Cry1AbMod binding-proteins from <i>Spodoptera frugiperda</i>	ISABEL GOMEZ GOMEZ MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ et al.	Peptides	2017
61	Identification of Aminopeptidase-N2 as a Cry2Ab binding protein in <i>Manduca sexta</i>	BLANCA INES GARCIA GOMEZ SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ et al.	Peptides	2017
62	An intramolecular salt bridge in <i>Bacillus thuringiensis</i> Cry4Ba toxin is involved in the stability of helix α -3, which is needed for oligomerization and insecticidal activity	SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ MARIO SOBERON CHAVEZ et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2017
63	Transgenic cotton co-expressing chimeric Vip3AcAa and Cry1Ac confers effective protection against Cry1Ac-resistant cotton bollworm	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Chen, Wen-bo et al.	TRANSGENIC RESEARCH	2017
64	Insecticidal specificity of Cry1Ah to <i>Helicoverpa armigera</i> is determined by binding of APNI via domain II loops 2 and 3	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Zhou, Z. et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2017

MARIO SOBERON CHAVEZ

65	ABCC2 is associated with Bacillus thuringiensis Cry1Ac toxin oligomerization and membrane insertion in diamondback moth	JORGE FELIX SANCHEZ QUINTANA ISABEL GOMEZ GOMEZ MARIA ALEJANDRA BRAVO DE LA PARRA et al.	SCIENTIFIC REPORTS	2017
66	A single point mutation resulting in cadherin mislocalization underpins resistance against bacillus thuringiensis toxin in cotton bollworm	SABINO PACHECO GUILLEN MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	2017
67	FOXA transcriptional factor modulates insect susceptibility to Bacillus thuringiensis Cry1Ac toxin by regulating the expression of toxin-receptor ABCC2 and ABCC3 genes	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Li, J. et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2017
68	Holotrichia obliqua Midgut Proteins That Bind to Bacillus thuringiensis Cry8-Like Toxin and Assembly of the H-obliqua Midgut Tissue Transcriptome	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Jiang, Jian et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2017
69	Toxicity of Cry1A toxins from Bacillus thuringiensis to CFI cells does not involve activation of adenylate cyclase/PKA signaling pathway	ROBERTO CARLOS MUÑOZ GARAY MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2017
70	Role of UPR Pathway in Defense Response of Aedes aegypti against Cry11Aa Toxin from Bacillus thuringiensis (vol 14, 8467, 2013)	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Bedoya-Perez, Leidy P. et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2016
71	Genetic Basis of Cry1F-Resistance in a Laboratory Selected Asian Corn Borer Strain and Its Cross-Resistance to Other Bacillus thuringiensis Toxins	MARIO SOBERON CHAVEZ Wang, Yueqin Wang, Yidong et al.	PLOS ONE	2016
72	Molecular cloning, expression, and identification of bre genes involved in glycosphingolipids synthesis in Helicoverpa armigera (Lepidoptera: Noctuidae)	MARIO SOBERON CHAVEZ Zhang, Dandan Xiao, Yutao et al.	JOURNAL OF ECONOMIC ENTOMOLOGY	2016
73	Mitochondrial markers to distinguish Spodoptera frugiperda populations associated with corn and cotton crops	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Queiroz, Paulo Roberto et al.	PESQUISA AGROPECUARIA BRASILEIRA	2016
74	Identification of ABCC2 as a binding protein of Cry1Ac on brush border membrane vesicles from Helicoverpa armigera by an improved pull-down assay	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Zhou, Zishan et al.	MICROBIOLOGY OPEN	2016

MARIO SOBERON CHAVEZ

75	Resistance to <i>Bacillus thuringiensis</i> Mediated by an ABC Transporter Mutation Increases Susceptibility to Toxins from Other Bacteria in an Invasive Insect	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Xiao, Yutao et al.	PLOS PATHOGENS	2016
76	Identification of an alkaline phosphatase as a putative Cry1Ac binding protein in <i>Ostrinia furnacalis</i> (Guenée)	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Jin, Tingting et al.	PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY	2016
77	Oligomerization of Cry9Aa in solution without receptor binding, is not related with insecticidal activity	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Fang, Longfa et al.	Electronic Journal Of Biotechnology	2016
78	Mitochondrial markers to distinguish <i>Spodoptera frugiperda</i> populations associated with corn and cotton crops	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Queiroz, P.R. et al.	PESQUISA AGROPECUARIA BRASILEIRA	2016
79	Evidence of field-evolved resistance of <i>Spodoptera frugiperda</i> to Bt corn expressing Cry1F in Brazil that is still sensitive to modified Bt toxins	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Monnerat, Rose et al.	PLOS ONE	2015
80	Identification of <i>Bacillus thuringiensis</i> Cry3Aa toxin domain II loop 1 as the binding site of <i>Tenebrio molitor</i> cadherin repeat CR12	Fernando ZunigaNavarrete ISABEL GOMEZ GOMEZ Itzel Amaro et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2015
81	<i>Bacillus thuringiensis</i> Cry1AbMod toxin counters tolerance associated with low cadherin expression but not that associated with low alkaline phosphatase expression in <i>Manduca sexta</i>	ISABEL GOMEZ GOMEZ Biviana Flores Escobar MARIA ALEJANDRA BRAVO DE LA PARRA et al.	Peptides	2015
82	Nitric oxide participates in the toxicity of <i>Bacillus thuringiensis</i> Cry1Ab toxin to kill <i>Manduca sexta</i> larvae	Carolina Chavez Benito RecioTotoro Biviana FloresEscobar et al.	Peptides	2015
83	Assembling of <i>Holotrichia parallela</i> (dark black chafer) midgut tissue transcriptome and identification of midgut proteins that bind to Cry8Ea toxin from <i>Bacillus thuringiensis</i>	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Shu, Changlong et al.	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	2015
84	Dual mode of action of Bt proteins: Protoxin efficacy against resistant insects	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Tabashnik, Bruce E. et al.	SCIENTIFIC REPORTS	2015

MARIO SOBERON CHAVEZ

85	Role of the ABCC2 transporter in the mode of action of the Bacillus thuringiensis Cry1Ac toxin in the Diamond Back Moth <i>Plutella xylostella</i>	Josue Ocelotl JORGE FELIX SANCHEZ QUINTANA Raquel Arroyo et al.	PROTEIN SCIENCE	2015
86	"Study of Bacillus thuringiensis Cry1Ab and Cry1Ac protoxins interaction with cadherin-like receptor from <i>Manduca sexta</i> "	Arlen PenaCardena MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ et al.	PROTEIN SCIENCE	2015
87	Improvement and efficient display of Bacillus thuringiensis toxins on M13 phages and ribosomes	SABINO PACHECO GUILLEN Emiliano Canton Fernando ZunigaNavarrete et al.	AMB Express	2015
88	Binding and oligomerization of modified and native Bt toxins in resistant and susceptible Pink Bollworm	Josue Ocelotl JORGE FELIX SANCHEZ QUINTANA Raquel Arroyo et al.	PLOS ONE	2015
89	Transcriptional cellular responses in midgut tissue of <i>Aedes aegypti</i> larvae following intoxication with Cry11Aa toxin from Bacillus thuringiensis	Pablo Emiliano Canton MARIA DE LOS ANGELES CANCINO RODEZNO MARIO SOBERON CHAVEZ et al.	Bmc Genomics	2015
90	Bacillus thuringiensis Cry1A toxins are versatile proteins with multiple modes of action: Two distinct pre-pores are involved in toxicity	ISABEL GOMEZ GOMEZ JORGE FELIX SANCHEZ QUINTANA ROBERTO CARLOS MUÑOZ GARAY et al.	BIOCHEMICAL JOURNAL	2014
91	Membrane binding and oligomer membrane insertion are necessary but insufficient for Bacillus thuringiensis Cyt1Aa toxicity	Pablo Emiliano Canton Jazmin A. Lopez Diaz MARIA ALEJANDRA BRAVO DE LA PARRA et al.	Peptides	2014
92	Toxicity and mode of action of insecticidal Cry1A proteins from Bacillus thuringiensis in an insect cell line, CF-1	Leivi Portugal MARIO SOBERON CHAVEZ ROBERTO CARLOS MUÑOZ GARAY et al.	Peptides	2014
93	Synergistic activity of Bacillus thuringiensis toxins against <i>Simulium</i> spp. larvae	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Monnerat, Rose et al.	JOURNAL OF INVERTEBRATE PATHOLOGY	2014
94	Erratum for the Report: "Engineering modified Bt toxins to counter insect resistance" (<i>Science</i> (2007) (1640-1642))	MARIO SOBERON CHAVEZ LILIANA PARDO LOPEZ ISABEL GOMEZ GOMEZ et al.	Science	2014
95	Erratum: Bacillus thuringiensis Cry1Ab mutants affecting oligomer formation are non-toxic to <i>Manduca sexta</i> larvae (<i>Journal of Biological Chemistry</i> (2007) 282 (21222-21229) DOI:10.1074/jbc.A113.701314)	ROBERTO CARLOS MUÑOZ GARAY ISABEL GOMEZ GOMEZ GLORIA SAAB RINCON et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	2013

MARIO SOBERON CHAVEZ

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99	Oligomerization of CryIIAa from <i>Bacillus thuringiensis</i> has an important role in toxicity against <i>Aedes aegypti</i>	ROBERTO CARLOS MUÑOZ GARAY CLAUDIA RODRIGUEZ ALMAZAN Jose N. Aguilar et al.	APPLIED AND ENVIRONMENTA L MICROBIOLOGY	2013
100	Role of UPR pathway in defense response of <i>Aedes aegypti</i> against CryIIAa toxin from <i>Bacillus thuringiensis</i>	Leidy P. Bedoya Perez Angeles Cancino Rodezno Biviana Flores Escobar et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2013
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103	Differential role of <i>manduca sexta</i> aminopeptidase-N and alkaline phosphatase in the mode of action of CryIAa, CryIAb, and CryIAc toxins from <i>Bacillus thuringiensis</i>	Biviana Flores Escobar Hector Rodriguez Magadan MARIA ALEJANDRA BRAVO DE LA PARRA et al.	APPLIED AND ENVIRONMENTA L MICROBIOLOGY	2013
104	The mitogen-activated protein kinase p38 is involved in insect defense against Cry toxins from <i>Bacillus thuringiensis</i> (vol 40, pg 58, 2010)	Angeles Cancino Rodezno Cynthia Alexander Roberto Villasenor et al.	INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY	2013
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MARIO SOBERON CHAVEZ

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Reporte individual

MARIO SOBERON CHAVEZ

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MARIO SOBERON CHAVEZ

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MARIO SOBERON CHAVEZ

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MARIO SOBERON CHAVEZ

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Reporte individual

MARIO SOBERON CHAVEZ

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Reporte individual

MARIO SOBERON CHAVEZ

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MARIO SOBERON CHAVEZ

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Reporte individual

MARIO SOBERON CHAVEZ

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194	Cloning and sequence analysis of the <i>Rhizobium etli</i> ccmA and ccmB genes involved in c-type cytochrome biogenesis	MARIO SOBERON CHAVEZ Aguilar G.R.	Gene	1996
195	Efficiency of insecticidal crystal protein production in a <i>Bacillus thuringiensis</i> mutant with derepressed expression of the terminal oxidase aa3 during sporulation	MARIA ALEJANDRA BRAVO DE LA PARRA ALFREDO MARTINEZ JIMENEZ MARIO SOBERON CHAVEZ et al.	APPLIED MICROBIOLOGY AND BIOTECHNOLOG Y	1993
196	<i>Rhizobium phaseoli</i> cytochrome c-deficient mutant induces empty nodules on <i>Phaseolus vulgaris</i> L	MARIO SOBERON CHAVEZ FEDERICO ESTEBAN SANCHEZ RODRIGUEZ Aguilar G.R.	MOLECULAR MICROBIOLOGY	1993
197	Regulation of nodule glutamine synthetase by CO ₂ levels in bean (<i>Phaseolus vulgaris</i> L.)	FEDERICO ESTEBAN SANCHEZ RODRIGUEZ MARIO SOBERON CHAVEZ Ortega J.-L. et al.	PLANT PHYSIOLOGY	1992
198	Isolation of <i>Rhizobium phaseoli</i> Tn5-induced mutants with altered expression of cytochrome terminal oxidases o and aa3	MARIO SOBERON CHAVEZ FEDERICO ESTEBAN SANCHEZ RODRIGUEZ Membrillo-Hernandez J. et al.	JOURNAL OF BACTERIOLOGY	1990
199	Role of glutamine aminotransferase in glutamine catabolism by <i>Saccharomyces cerevisiae</i> under microaerophilic conditions	MARIO SOBERON CHAVEZ MARIA ALICIA GONZALEZ MANJARREZ Olamendi J. et al.	Journal Of General Microbiology	1989

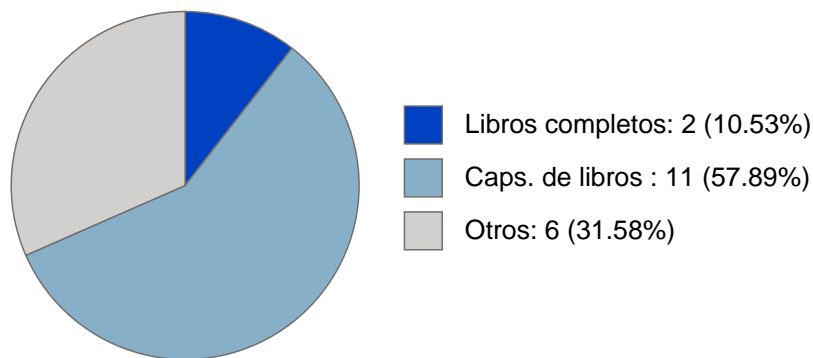
MARIO SOBERON CHAVEZ

200	Isolation of a Rhizobium phaseoli cytochrome mutant with enhanced respiration and symbiotic nitrogen fixation.	MARIO SOBERON CHAVEZ JOSE EDGARDO ESCAMILLA MARVAN Williams H.D. et al.	JOURNAL OF BACTERIOLOGY	1989
201	Glutamine degradation through the γ -amidase pathway in Saccharomyces cerevisiae	MARIO SOBERON CHAVEZ MARIA ALICIA GONZALEZ MANJARREZ	Journal Of General Microbiology	1987
202	Coordinated regulation of ammonium assimilation and carbon catabolism by glyoxylate in Saccharomyces cerevisiae.	MARIA ALICIA GONZALEZ MANJARREZ MARIO SOBERON CHAVEZ Rodríguez L. et al.	Journal Of General Microbiology	1987
203	Behaviour of temperate phage Mu in Salmonella typhi	MARIO SOBERON CHAVEZ JAIME ANTONIO MARTUSCELLI QUINTANA Gama M.J. et al.	Journal Of General Microbiology	1986
204	NADP ⁺ -dependent glutamate dehydrogenase activity is impaired in mutants of Saccharomyces cerevisiae that lack aconitase	MARIA ALICIA GONZALEZ MANJARREZ MARIO SOBERON CHAVEZ Rodriguez L. et al.	Journal Of General Microbiology	1985

MARIO SOBERON CHAVEZ

LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Strategies to Reduce Insecticide Use in Agricultural Production	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Blanco C.A.	Capítulo de un Libro	2023	9780128241660
2	Bacillus thuringiensis: Mechanisms and use	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Gill S.S.	Capítulo de un Libro	2019	9780128117378
3	Algodón GM en México	LUIS ENRIQUE EGUIARTE FRUNS MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA et al.	Libro Completo	2019	9786073021043
4	Insecticidal proteins from bacillus thuringiensis and their mechanism of action	MARIA ALEJANDRA BRAVO DE LA PARRA SABINO PACHECO GUILLEN ISABEL GOMEZ GOMEZ et al.	Capítulo de un Libro	2017	9783319566788
5	Mode of Action of Cry Toxins from Bacillus thuringiensis and Resistance Mechanisms	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA	Capítulo de un Libro	2016	9789400767256

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6	Strategies to Reduce Insecticide Use in Agricultural Production	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ	Capítulo de un Libro	2016	9780081005965
7	Bt Resistance - Characterization and Strategies for GM Crops Producing Bacillus thuringiensis Toxins Preface	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ MARIO SOBERON CHAVEZ et al.	Editorial Material	2015	9781780644370
8	Bt Resistance - Characterization and Strategies for GM Crops Producing Bacillus thuringiensis Toxins Preface	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ MARIO SOBERON CHAVEZ et al.	Editorial Material	2015	9781780644370
9	Mechanism of action of Bacillus thuringiensis insecticidal toxins and their use in the control of insect pests	MARIA ALEJANDRA BRAVO DE LA PARRA JORGE FELIX SANCHEZ QUINTANA GRETEL MENDOZA ALMANZA et al.	Article	2015	9780128005897
10	Preface	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ Gao Y.	Editorial Material	2015	9781780644370
11	Countering pest resistance with genetically modified Bt toxins	MARIO SOBERON CHAVEZ BLANCA INES GARCIA GOMEZ SABINO PACHECO GUILLEN et al.	Capítulo de un Libro	2015	9781780644370
12	Bt resistance: Characterization and strategies for GM crops producing bacillus thuringiensis toxins	MARIO SOBERON CHAVEZ MARIA ALEJANDRA BRAVO DE LA PARRA Gao Y.	Libro Completo	2015	9781780644370
13	Different models of the mode of action of Bt 3d-Cry toxins	MARIA ALEJANDRA BRAVO DE LA PARRA ISABEL GOMEZ GOMEZ MARIO SOBERON CHAVEZ et al.	Capítulo de un Libro	2015	9781780644370
14	Role of GPI-anchored membrane receptors in the mode of action of Bacillus thuringiensis Cry toxins	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ ISABEL GOMEZ GOMEZ	Capítulo de un Libro	2012	9789535100508
15	Phage display: Fundamentals and applications	MARIO SOBERON CHAVEZ	Capítulo de un Libro	2012	9788178955520



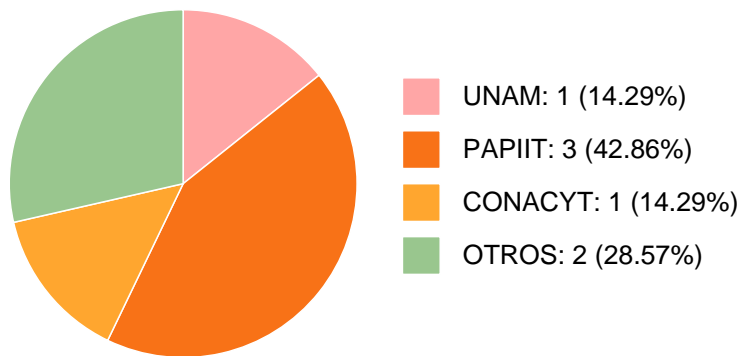
MARIO SOBERON CHAVEZ

16	Towards a healthy control of insect pest: Potential use of Microbial insecticides	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ	Capítulo de un Libro	2011	9781849731492
17	Bacillus thuringiensis Mechanisms and Use with addendum 2010	MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ	Capítulo de un Libro	2010	9780123814494
18	Pore Formation by Cry Toxins	MARIO SOBERON CHAVEZ LILIANA PARDO LOPEZ ROBERTO CARLOS MUÑOZ GARAY et al.	Article	2010	9781441963260
19	Defense and death responses to pore forming toxins	Angeles Cancino Rodezno HELENA PORTA DUCOING MARIO SOBERON CHAVEZ et al.	Review	2010	9781907284489

MARIO SOBERON CHAVEZ

PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Estudio del mecanismo de resistencia de la palomilla de torso diamante a las toxinas cryla de bacillus thuringiensis y estrategias moleculares para contender con la resistencia a estas toxinas	MARIO SOBERON CHAVEZ	Recursos PAPIIT	01-01-2015	30-03-2018
2	Especificidad de las toxinas CRY de Bacillus thuringiensis. Mecanismos moleculares.	MARIO SOBERON CHAVEZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2014	30-06-2021
3	Mosquitocidal action of Bacillus thuringiensis toxins.	MARIO SOBERON CHAVEZ	Universidades, Centros, Institutos u Organismos Internacionales	01-07-2016	31-07-2022
4	Papel de las hélices α en la oligomerización y especificidad de la toxina CYTIAA de bacillus thuringiensis SUBSP. Israelensis.	MARIO SOBERON CHAVEZ	Recursos PAPIIT	01-01-2018	31-12-2020

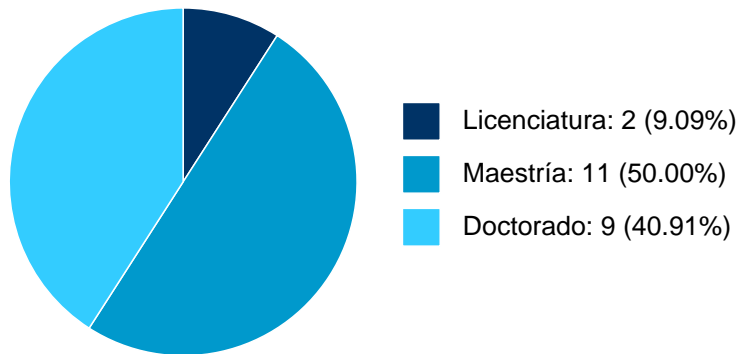
MARIO SOBERON CHAVEZ

5	Estudio del papel de las chaperonas Hsp90 y Hsp70 de <i>Plutella xylostella</i> en el modo de acción de las toxinas CryIA de <i>Bacillus thuringiensis</i> .	MARIO SOBERON CHAVEZ	Recursos CONACYT	13-09-2019	31-03-2023
6	Identificación de los sitios de interacción de la toxina Vip3Aa con sus receptores en <i>Spodoptera frugiperda</i>	MARIO SOBERON CHAVEZ	Recursos PAPIIT	01-01-2023	31-12-2025
7	Estudio del papel de las chaperonas Hsp90 y Hsp70 de <i>plutella Xylostella</i> en el modo de acción de las toxinas CryIA de <i>Bacillus thuringiensis</i> .	MARIO SOBERON CHAVEZ	Recursos CONAHCYT	01-07-2023	30-11-2023

MARIO SOBERON CHAVEZ

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Análisis del mecanismo de acción de toxinas de Bacillus thuringiensis activas contra Spodoptera frugiperda	Tesis de Doctorado	MARIO SOBERON CHAVEZ,	Martínez de Castro Jimémez, Diana Laura,	Instituto de Biotecnología,	2019
2	Papel de las hélices a-1 y a-2 en la especificidad de la toxina Cyt1Aa de Bacillus thuringiensis subsp. israelensis	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Anaya Cárdenas, Paulina,	Instituto de Biotecnología,	2019
3	El Papel del transportador ABCC2 en el modo de acción de la toxina CryIAc de Bacillus Thuringiensis en lepidópteros	Tesis de Doctorado	MARIO SOBERON CHAVEZ,	Ocelotl Oviedo, Josué,	Instituto de Biotecnología,	2017
4	Papel de la fosfatasa alcalina ALP1 en el mecanismo de acción de las toxinas Cry de bacillus thuringiensis subespecie israelensis en aedes aegypti	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Jimémez Reyes, Alan Israel,	Instituto de Biotecnología,	2015

MARIO SOBERON CHAVEZ

5	Análisis de la participación del fragmento de protoxina C terminal de cry1AB(C)mod en su solubilidad y toxicidad	Tesis de Maestría	MA. DEL CARMEN BELTRAN NUÑEZ,	ERNESTO ORTIZ SURI, MARIO SOBERON CHAVEZ, et al.	Instituto de Biotecnología,	2014
6	Estudio de la interacción de la toxina cry3aa con una fosfatasa alcalina y el receptor caderina del intestino del coleóptero tenebrio molitor	Tesis de Doctorado	ERNESTO ORTIZ SURI,	MARIO SOBERON CHAVEZ, Zúñiga Navarrete, Fernando,	Instituto de Biotecnología,	2014
7	Análisis de la especificidad en toxicidad y sinergismo de la toxina Cyt1Aa de Bacillus thuringiensis ssp. israelensis	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Cantón Ojeda, Pablo Emiliano,	Instituto de Biotecnología,	2011
8	Análisis de variables para el despliegue de la toxina Cry3Aa en el fago filamentoso M13	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Zúñiga Navarrete, Fernando,	Instituto de Biotecnología,	2011
9	Papel del asa 3 del dominio II de las toxinas Cry1A's de Bacillus thuringiensis en el mecanismo de toxicidad : un blanco potencial para modificar el reconocimiento de sus receptores	Tesis de Doctorado	MARIO SOBERON CHAVEZ,	Pacheco Guillen, Sabino,	Instituto de Biotecnología,	2010
10	Análisis de las regiones de interacción de las asas del dominio II de la toxina Cry4Ba con sus proteínas receptoras en Aedes aegypti	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Reyes Fernández, Esmeralda Za-Nicthé,	Instituto de Biotecnología,	2010
11	Identificación del sitio de interacción de una fosfatasa alcalina de aedes aegypti con la toxina Cry 11 Aa	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Lira Navarrete, Erandi,	Coordinación de Estudios de Posgrado, Instituto de Biotecnología,	2008

MARIO SOBERON CHAVEZ

12	Identificación del receptor para la toxina CryIIAa de Bacillus thuringiensis subespecie israelensis presente sobre las células intestinales de larvas de los epítopes involucrados en la interacción toxina-receptor	Tesis de Doctorado	MARIO SOBERON CHAVEZ,	Fernández Altuna, Luisa Elena,	2006
13	Papel del dominio III de la toxina CryIAb de Bacillus thuringiensis en la interacción con los receptores de Manduca sexta	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Arenas Sosa, Ivan,	2006
14	Identificación del receptor para la toxina CryIIAa de Bacillus thuringiensis subespecie israelensis presente sobre las células intestinales de larvas de Aedes aegypti : estudio molecular de los epítopes involucrados en la interacción toxina-receptor	Tesis de Doctorado	MARIO SOBERON CHAVEZ,	Fernandez Luna, Luisa Elena,	2006
15	Caracterización de un anticuerpo scFv que mimetiza el receptor natural de la proteína CryIAb de Bacillus thuringiensis	Tesis de Doctorado	MARIO SOBERON CHAVEZ,	Gómez Gómez, Isabel,	2002
16	Estudio de la regulación de la expresión del operon ccmIEFH cromosomal y su participación en la expresión de citocromos tipo C en Rhizobium etli	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Reyes Aguilar, Josue David,	2000

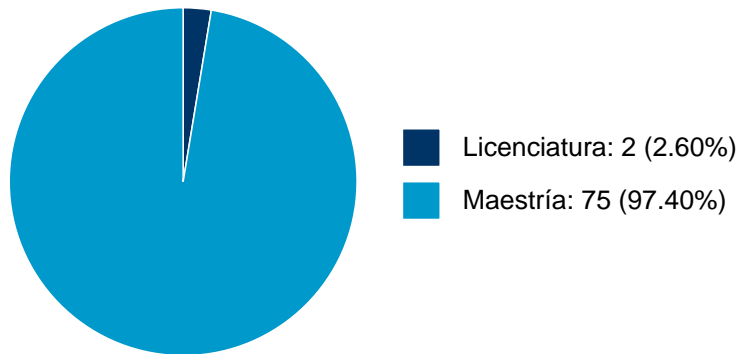
MARIO SOBERON CHAVEZ

17	Selección de fragmentos de anticuerpos (sc Fv) capaces de unirse a la [delta]-endotoxina cry 1 Ab de Bacillus thuringiensis mediante phage display	Tesis de Licenciatura	MARIO SOBERON CHAVEZ,	Peralta Gil, Martin,	1998
18	Clonación y análisis de secuencia de los genes ccmA y ccmB involucrados en la expresión de los citocromos de tipo C en Rhizobium etli	Tesis de Doctorado	JOSE EDGARDO ESCAMILLA MARVAN,	MARIO SOBERON CHAVEZ, Aguilar Gutierrez, German Ruben,	1997
19	Identificación de genes involucrados en la expresión de citocromos tipo c y la oxidasa terminal aa3 de Rhizobium etli	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Tabche Barrera, María Luisa,	1995
20	Genética molecular de genes involucrados en la expresión de oxidasas terminales en Rhizobium etli	Tesis de Doctorado	MARIO SOBERON CHAVEZ,	Miranda Ríos, Juan,	1995
21	Clonación y caracterización de una secuencia de DNA relacionada con la expresión de los citocromos de tipo b y c y su relación con la fijación de nitrógeno en Rhizobium leguminosarum biovar phaseoli	Tesis de Maestría	MARIO SOBERON CHAVEZ,	Aguilar Gutiérrez, Germán Rubén,	1991
22	Regulación de las oxidasas terminales alternas citocromo o y citocromo de y su relación con la fijación de nitrógeno en Rhizobium leguminosarum bv.phaseoli	Tesis de Licenciatura	MARIO SOBERON CHAVEZ,	Membrillo Hernandez, Jorge,	1991

MARIO SOBERON CHAVEZ

DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	SEMINARIO DE INVESTIGACIÓN III	Instituto de Biotecnología	1	2023-2
2	Maestría	TRABAJO DE INVESTIGACIÓN III	Instituto de Biotecnología	1	2023-2
3	Maestría	TRABAJO DE INVESTIGACIÓN III	Instituto de Biotecnología	1	2023-1
4	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Biotecnología	1	2023-1
5	Maestría	TRABAJO DE INVESTIGACIÓN II	Instituto de Biotecnología	1	2023-1
6	Maestría	TRABAJO DE INVESTIGACIÓN I	Instituto de Biotecnología	1	2022-2
7	Maestría	TRABAJO DE INVESTIGACIÓN III	Instituto de Biotecnología	1	2019-1
8	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2018-2
9	Maestría	CURSO IV	Instituto de Biotecnología	1	2018-2
10	Maestría	SEMINARIO DE INVESTIGACION III	Instituto de Biotecnología	1	2018-2
11	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2018-2
12	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2018-1
13	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Biotecnología	1	2018-1
14	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2018-1
15	Maestría	TRABAJO DE INVESTIGACIÓN III	Instituto de Biotecnología	1	2017-2
16	Maestría	TRABAJO DE INVESTIGACIÓN I	Instituto de Biotecnología	1	2017-2
17	Maestría	TRABAJO DE INVESTIGACIÓN II	Instituto de Biotecnología	1	2017-2
18	Maestría	TRABAJO DE INVESTIGACION II-394374	Instituto de Biotecnología	1	2017-1
19	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2016-1
20	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2015-2
21	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2014-2
22	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2014-2
23	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2014-1

MARIO SOBERON CHAVEZ

24	Maestría	SEMINARIO DE INVESTIGACION III	Instituto de Biotecnología	1	2014-1
25	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2014-1
26	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Biotecnología	1	2013-2
27	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2013-2
28	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2013-2
29	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2013-1
30	Maestría	TRABAJO DE INVESTIGACION I	Instituto de Biotecnología	1	2013-1
31	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2012-2
32	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2012-2
33	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2012-2
34	Maestría	CURSO III	Instituto de Biotecnología	2	2012-1
35	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2012-1
36	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2012-1
37	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2012-1
38	Maestría	CURSO IV	Instituto de Biotecnología	5	2012-1
39	Maestría	SEMINARIO DE INVESTIGACION III	Instituto de Biotecnología	1	2011-2
40	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2011-2
41	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2011-1
42	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2011-1
43	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Biotecnología	1	2011-1
44	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2011-1
45	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2010-2
46	Maestría	TRABAJO DE INVESTIGACION I	Instituto de Biotecnología	1	2010-2
47	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Biotecnología	1	2010-2
48	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2010-2
49	Maestría	SEMINARIO DE INVESTIGACION III	Instituto de Biotecnología	1	2010-2
50	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2010-2
51	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2010-2
52	Maestría	CURSO IV	Instituto de Biotecnología	7	2010-1
53	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2010-1
54	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2010-1
55	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Biotecnología	1	2010-1
56	Maestría	CURSO III	Instituto de Biotecnología	2	2010-1
57	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2010-1
58	Maestría	TRABAJO DE INVESTIGACION I	Instituto de Biotecnología	1	2009-2
59	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Biotecnología	1	2009-2
60	Maestría	SEMINARIO DE INVESTIGACION III	Instituto de Biotecnología	1	2009-2
61	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2009-2
62	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2009-2
63	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2009-1
64	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2009-1
65	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Biotecnología	1	2009-1
66	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2009-1



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



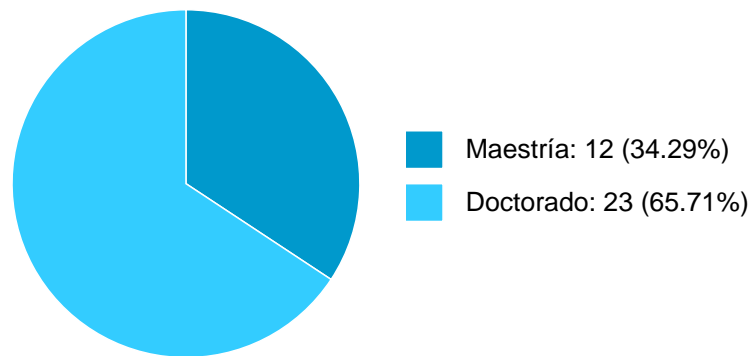
MARIO SOBERON CHAVEZ

67	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2008-2
68	Maestría	TRABAJO DE INVESTIGACION I	Instituto de Biotecnología	1	2008-2
69	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Biotecnología	1	2008-2
70	Maestría	SEMINARIO DE INVESTIGACION III	Instituto de Biotecnología	1	2008-2
71	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2008-2
72	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2008-2
73	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2008-1
74	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2008-1
75	Licenciatura	FRONTERAS EN LAS CIENCS GENOMIC. II	Instituto de Biotecnología	1	2008-1
76	Licenciatura	AREA DE CONCETRACION II	Instituto de Biotecnología	1	2008-1
77	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Biotecnología	1	2008-1

MARIO SOBERON CHAVEZ

TUTORIAS EN POSGRADO

Histórico de tutorías en posgrado



#	Entidad	Nivel	Plan de estudios	Año	Semestre
1	Instituto de Biotecnología	Doctorado	Doctorado en Bioquímicas	2019	2019-2
2	Instituto de Biotecnología	Doctorado	Doctorado en Bioquímicas	2018	2018-2
3	Instituto de Biotecnología	Doctorado	Doctorado en Bioquímicas	2018	2019-1
4	Instituto de Biotecnología	Maestría	Maestría en Ciencias Bioquímicas	2018	2018-2
5	Instituto de Biotecnología	Maestría	Maestría en Ciencias Bioquímicas	2018	2019-1
6	Instituto de Biotecnología	Maestría	Maestría en Ciencias Bioquímicas	2017	2017-2
7	Instituto de Biotecnología	Maestría	Maestría en Ciencias Bioquímicas	2017	2018-1
8	Instituto de Biotecnología	Doctorado	Doctorado en Bioquímicas	2017	2017-2
9	Instituto de Biotecnología	Doctorado	Doctorado en Bioquímicas	2017	2018-1
10	Instituto de Biotecnología	Doctorado	Doctorado en Bioquímicas	2016	2016-2
11	Instituto de Biotecnología	Doctorado	Doctorado en Bioquímicas	2016	2017-1
12		Doctorado	Doctorado en Bioquímicas	2015	2015-2
13		Doctorado	Doctorado en Bioquímicas	2015	2016-1
14	Instituto de Biotecnología	Doctorado	Doctorado en Bioquímicas	2015	2016-1
15		Doctorado	Doctorado en Bioquímicas	2014	2014-2
16		Doctorado	Doctorado en Bioquímicas	2014	2015-1
17		Doctorado	Doctorado en Bioquímicas	2013	2013-2
18		Doctorado	Doctorado en Bioquímicas	2013	2014-1
19		Maestría	Maestría en Ciencias Bioquímicas	2013	2013-2
20		Maestría	Maestría en Ciencias Bioquímicas	2013	2014-1
21		Maestría	Maestría en Ciencias Bioquímicas	2012	2012-2
22		Maestría	Maestría en Ciencias Bioquímicas	2012	2013-1
23		Doctorado	Doctorado en Bioquímicas	2012	2012-2



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



MARIO SOBERON CHAVEZ

24		Doctorado	Doctorado en Bioquímicas	2012	2013-1
25	Instituto de Biotecnología	Doctorado	Doctorado en Ciencias Bioquímicas	2012	2012-2
26	Instituto de Biotecnología	Doctorado	Doctorado en Ciencias Bioquímicas	2011	2011-2
27	Instituto de Biotecnología	Doctorado	Doctorado en Ciencias Bioquímicas	2011	2012-1
28	Instituto de Biotecnología	Doctorado	Doctorado en Ciencias Bioquímicas	2010	2010-2
29	Instituto de Biotecnología	Doctorado	Doctorado en Ciencias Bioquímicas	2010	2011-1
30	Instituto de Biotecnología	Maestría	Maestría en Ciencias Bioquímicas	2010	2010-2
31	Instituto de Biotecnología	Maestría	Maestría en Ciencias Bioquímicas	2010	2011-1
32	Instituto de Biotecnología	Maestría	Maestría en Ciencias Bioquímicas	2009	2009-2
33	Instituto de Biotecnología	Maestría	Maestría en Ciencias Bioquímicas	2009	2010-1
34	Instituto de Biotecnología	Doctorado	Doctorado en Ciencias Bioquímicas	2009	2009-2
35	Instituto de Biotecnología	Doctorado	Doctorado en Ciencias Bioquímicas	2009	2010-1

MARIO SOBERON CHAVEZ

PATENTES

#	Título	Inventores	Sección	Año
1	COMPOSICION DE UN BIOINSECTICIDA PARA EL CONTROL BIOLOGICO DE LARVAS DE MOSQUITOS, VECTORES DE ENFERMEDADES, CON EFECTIVIDAD ESTABILIZADA.	MARIO SOBERON CHAVEZ, MARIA ALEJANDRA BRAVO DE LA PARRA, LEOBARDO SERRANO CARREON,	HUMAN NECESSITIES	2015
2	GENES CRY DE BACILLUS THURINGIENSIS MUTANTES Y METODOS DE USO.	MARIO SOBERON CHAVEZ, ISABEL GOMEZ GOMEZ, MARIA ALEJANDRA BRAVO DE LA PARRA,	CHEMISTRY; METALLURGYHUMAN NECESSITIES	2016

MARIO SOBERON CHAVEZ

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	2008-2024
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