



POSTERS SESSION I
MONDAY, OCTOBER 17

BASIC BIOCHEMISTRY I

BB1

Analysis of carotenoids and proline in three variants of achiote (Bixa Orellana) subjected to water stress
Margarita Aguilar-Espinosa. Centro de Investigación Científica de Yucatán A.C.

BB2

Identification and cloning of genes involved in the biosynthesis of betulinic acid in Pentalinon andrieuxii
Alexa Sharai Aguilar Acevedo. Centro de Investigación Científica de Yucatán A.C.

BB3

The peroxisome docking/translocation machinery is developmentally regulated in the fungus Podospora anserina
Beatriz Aguirre López. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB4

Exploring the thermal stability of thermophilic proteins by molecular dynamics
Salomón de Jesús Alas Guardado. Universidad Autónoma Metropolitana Cuajimalpa

BB5

Structural study of catechol 1,2 dioxygenase from Pseudomonas stutzeri
Arisbeth Guadalupe Almeida Juárez. Instituto de Biotecnología. Universidad Nacional Autónoma de México

BB6

Biochemical characterization of components with antimicrobial activity isolated from the venom of endemic scorpions of the State of Chihuahua
Carmen Carolina Alvarado González. Universidad Autónoma de Chihuahua

BB7

The protein phosphatase PP2A and the Casein kinase CKII are expressed in sea urchin spermatozoa
José Daniel Ángeles Salazar. Facultad de Medicina. Universidad Autónoma del Estado de Morelos

BB8

Changes in methyl esterification of pectin in the cell wall of coconut zygotic embryos.
Mónica Yanahi Aparicio Ortiz. Centro de Investigación Científica de Yucatán A.C.

BB9

Mammalian CatSper-EFCAB9 is expressed in sea urchin sperm
Fernando Aranda Lozano. Instituto de Biotecnología. Universidad Nacional Autónoma de México

BB10

Participation of intersubunit salt bridges in the stability of glucose-6-phosphate dehydrogenase from Pseudomonas aeruginosa
Edaena Benítez-Rangel. Facultad de Estudios Superiores Iztacala. Universidad Nacional Autónoma de México

BB11

Maltose metabolism controls starch degradation in bean fruit pericarp

Lilia Angélica Bernal Gracida. Facultad de Química. Universidad Nacional Autónoma de México

BB12

Auxin and Cytokinin Cause Major Proteomic Changes for Somatic Embryogenesis in Coffea canephora

Ligia Brito Argáez. Centro de Investigación Científica de Yucatán A.C.

BB13

Effect of the high hydrostatic pressure assisted curing of vanilla beans (Vanilla planifolia) on the total phenolic content and its relationship with the change in color parameters

Génesis V. Buitimea-Cantúa. Escuela de Ingeniería y Ciencias. Tecnológico de Monterrey

BB14

Characterization of a fungal isolate that uses cellulose polymers as a carbon source

Irazú Margarita Calderón-Tinajero. Departamento de Biología. Universidad de Guanajuato

BB15

The Nrg1-Rtg3-Ala repressor complex: the role of the chromatin remodeling in the ALT2 expression profile in S. cerevisiae

Campero-Basaldua José Carlos. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB16

The Nrg1-Rtg3-Ala hybrid repressor complex: Identification of its organization and of the gene circuit under its control

Cecilia Carretero Camberos. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB17

Morphological and molecular control of ES via Ubiquitin-Proteasome in Coffea canephora Pierre ex A. Froehner

Evelyn Arlette Carrillo Bermejo. Centro de Investigación Científica de Yucatán A.C.

BB18

Subcellular localization for an RNA binding protein from Ustilago maydis in Nicotiana benthamiana leaves

Rodrigo Carrillo Solís. Centro de Investigación Científica de Yucatán A.C.

BB19

Biochemical characterization of a glycosyltransferase from Nicotiana tabacum

Arianna Duque Ortiz. Instituto Potosino de Investigación Científica y Tecnológica A.C.

BB20

Expression of Tau protein, an Alzheimer marker, disrupts yeast mitochondrial homeostasis.

Yaisa Castillo Casaña. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB21

BAT1 and BAT2 Functional Diversification: The Role of Subcellular Localization on the Function of Paralogous Genes

Paola Cepeda-García. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB22

Analysis of the effect of insulin resistance on the degradation of branched chain amino acids

Ricardo Benjamín Cervantes Vera. Cinvestav Zacatenco

BB23

*Fumarate Reductase a putative component in the alternative mitochondrial respiratory chain of *Rhodotorula mucilaginosa*.*

Natalia Chiquete Felix. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB24

*Comparative analysis of the secondary nucleation mechanism between ovalbumin and *Moringa oleifera* seedling and its inhibition by glucosinolates.*

Iván Artemio Corral Guerrero. Facultad de Ciencias Químicas. Universidad Juárez del Estado de Durango

BB25

*The pyruvate kinase from the White shrimp *Litopenaeus vannamei*: gene structure, protein modeling and deduced amino acid sequence*

Dalia Guadalupe Cruz Moreno. Centro de Investigación en Alimentación y Desarrollo, A.C.

BB26

*Molecular aggregates of β -glucosidase Isoform II from *Sechium edule*.*

Alberto Cruz Rodríguez. Unidad de Bioquímica e Inmunología. Instituto Tecnológico de Oaxaca

BB27

*Protoplast isolation and characterization from *Argemone mexicana* L (*Papaveraceae*).*

Maria Fernanda de la Cruz Velueta. Centro de Investigación Científica de Yucatán A.C.

BB28

Steroidogenesis in JEG-3 cells and progesterone receptors

Paola Diaz Carrillo. Facultad de Medicina. Universidad Nacional Autónoma de México

BB29

Ezrin role in Claudin-9 transfected AGS cells migration.

Naresh Esteban Diego Bocanegra. Facultad de Medicina. Universidad Nacional Autónoma de México

BB30

The risk haplotype associated to type 2 diabetes in the SLC16A11 transporter induces changes in its expression

Zuleima Natali Domínguez Velázquez. Departamento de Biotecnología. Cinvestav Zacatenco

GENETICS, EPIGENETICS & GENETIC REGULATION I

G1

Transcriptional regulation of phaC by PhaP5 in Azospirillum brasilense Sp7 for poly-3-hydroxybutyrate (PHB) production

Yovani Aguilar Carrillo. Instituto de Ciencias. Benemérita Universidad Autónoma de Puebla

G2

Effect of 5-azacytidine and trichostatin A on the flavones and flavonols biosynthesis pathway of the albino plant Agave angustifolia Haw

Edder Darío Aguilar Méndez. Centro de Investigación Científica de Yucatán A.C.

G3

Chloroplastic pentatricopeptide repeat proteins (PPR) in albino plantlets of Agave angustifolia Haw. reveal unexpected behavior

Mauricio Andrade Marcial. Unidad de Biotecnología. Centro de Investigación Científica de Yucatán A.C.

G4

MicroRNA miR-142-3P expression in triple-negative breast cancer (TNBC) derived cell lines and its involvement in DNA damage response (DDR) mechanisms

Alberto Aranza-Martínez. FES Iztacala. Universidad Nacional Autónoma de México

G5

Cellular plasticity of radioresistant breast cancer cells favor chemosensitivity

Elena Aréchaga Ocampo. Unidad Cuajimalpa. Universidad Autónoma Metropolitana

G6

Reconstruction of Telomere-Associated Sequences of individual chromosomes of U. maydis by assembling long sequence reads

Cintya Atonal Águila. Instituto de Ciencias. Benemérita Universidad Autónoma de Puebla

G7

The RNA polymerase II subunit NRPB2 is required for indeterminate root development, cell viability, stem cell niche maintenance, and de novo root tip regeneration in Arabidopsis.

Adrián Ávalos Rangel. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

G8

Characterization of microRNA/target regulatory nodes involved in the symbiosis between Arabidopsis thaliana and Piriformospora indica

Ana Karen Ávila Sandoval. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G9

A microRNAs profile predicts gastric preneoplastic lesions progression to gastric cancer

Sergio Ayala Díaz. Universidad Autónoma Metropolitana

G10

High levels of second messenger c-di-AMP positively influence the activation of stringent response and affects mutation frequency rate in Bacillus subtilis.

Victor Manuel Ayala García. Facultad de Ciencias Químicas. Universidad Juárez del Estado de Durango

G11

Role of SdiA protein in the transcriptional regulation of genes involved in the biosynthesis of the Klebsiella oxytoca tilivalline cytotoxin

Alma Citlalli Balderas Hernandez. Hospital de Pediatría. Centro Médico Nacional Siglo XXI. IMSS

G12

Rhizobium genomic edition using the CRISPR / Cas9 system

Rafael Díaz Méndez. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G13

Methylation profile and expression levels of the ADRA2A gene in post-mortem brain tissue from suicidal subjects.

Marcelo Barraza Salas. Facultad de Ciencias Químicas. Universidad Juárez del Estado de Durango

G14

Genomic engineering in Rhizobium etli: implementation and evaluation of a system based on dCas9

Oussama Bellahsen. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G15

Effect of lncRNA ANRIL on DNA repair in triple negative breast cancer-derived cell lines

Luis Brito-Elias. FES Iztacala. Universidad Nacional Autónoma de México

G16

Centromeric α -satellite non-coding RNA upregulation upon proteasome inhibition: a molecular characterization

Rodrigo E. Cáceres Gutiérrez. IIBO. UNAM. Instituto Nacional de Cancerología

G17

Primpol from A. thaliana is involved in DNA damage tolerance

Laura Daniela Camacho Manriquez. Laboratorio Nacional de Genómica para la Biodiversidad

G18

Towards the identification of the sequences required for the expression of 5S rRNA genes in the early-branched eukaryote Leishmania major

José Andrés Cano Santiago. FES Iztacala. Universidad Nacional Autónoma de México

G19

Bioinformatic selection of transcription factor candidates involved in the regulation of chromoplast biogenesis in Capsicum spp. fruits.

Alejandra Castañeda Marín. Departamento de Ingeniería Genética. Cinvestav IPN Unidad Irapuato

G20

Structural characterization of Transcription Factor Binding Sites of LTR regulators

Guillermo de Jesus Castillo Cortes. Escuela Superior de Apan. Universidad Autónoma del Estado de Hidalgo

G21

*Natural pigment production in response to various stress signals in cell lines of *Stenocereus queretaroensis* (F.A.CWeber ex Mathes) Buxb.*

Jaime Abelardo Ceja Lopez. Unidad de Bioquímica y Biología Molecular de Plantas. Centro de Investigación Científica de Yucatán A.C.

G22

*Stress-induced germ cell apoptosis and stress granules formation upon exposure *C. elegans* to chemotherapy agents*

Andrea Viridiana Cervantes Ayala. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

G23

Identification of polymorphisms of inflammatory genes associated with preterm birth

Jesús Eduardo Chávez Ortega. Facultad de Medicina. UNAM. INMEGEN.

G24

*Genetic diversity in *Carludovica palmata* Ruiz & Pavon in Mexico*

Lucia del Carmen Chi Chi. Centro de Investigación Científica de Yucatán A.C.

G25

*1-dodecene is a signaling molecule that induces the Oxidative Stress Response in *Candida glabrata**

Yazmín Contreras-Bravo. Instituto Potosino de Investigación Científica y Tecnológica A.C.

G26

Differential gene expression analysis shows anticancer activity of chalcone in triple-negative breast cancer cells

Eduardo De la Cruz Cano. División Académica de Ciencias Básicas. Universidad Juárez Autónoma de Tabasco

G27

*Gene regulation mediated by small RNAs in the cuticle mutant *eca2* participates in defense response to fungal pathogen *Botrytis cinerea**

Carlos De la Rosa Ureña. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

MICROBIOLOGY & VIROLOGY I**MV1**

*Inducible prophages in the genomes of *Staphylococcus aureus*.*

Alan Alejandro Aguayo González. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

MV2

The role of phosphate availability on plant growth promotion by the probiotic bacterium Achromobacter sp. 5B1

Joseline Suhail Alejo Guerra. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV3

Studying tyrosine phosphorylation in ISC pathway proteins

Oscar Manuel Alonso Ambriz. Facultad de Medicina. Universidad Autónoma de Nuevo León

MV4

Possible participation of different transport systems for the translocation to the nucleus of two isoforms of fibrillarins in the parasite Trypanosoma cruzi

Arturo Andrade Salas. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

MV5

Molecular basis of enhanced protease activity of Serratia marcescens HU1848

Angel Andrade Torres. Facultad de Medicina. Universidad Autónoma de Nuevo León

MV6

In silico and in vitro characterization of the ORF1 encoded protein from the papaya umbra-like virus PMeV-Mx

Jeanin Arguelles Quintal. Centro de Investigación Científica de Yucatán A.C.

MV7

Manganese metallostasis in Stenotrophomonas maltophilia and its impact on virulence and intracellular survival in phagocytic cells

Fulvia Stefany Argueta Zepeda. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

MV8

Antiviral effect of metabolites from Lactobacillus rhamnosus and Chlorella sorokiniana in cells infected with rotavirus

Evangelina Elizama Aros Uzarraga. Universidad de Sonora

MV9

Evaluation of the antimicrobial effect of Thymus vulgaris extract against Staphylococcus epidermidis and Staphylococcus aureus.

Ivonne Estefanía Barbosa Ramírez. Unidad Profesional Interdisciplinaria de Ingeniería. Instituto Politécnico Nacional

MV10

Study on the regulation of depolymerization of the biodegradable bioplastic polyhydroxybutyrate (PHB) in Azotobacter vinelandii

Thalía Barrientos Millán. Instituto de Biotecnología. Universidad Nacional Autónoma de México

MV11

Study of the mechanism of control of C-5 alginate epimerases by the second messenger c-di-GMP: characterization of FleQ as the putative intermediate

Victor V. Barrios Rafael. Instituto de Biotecnología. Universidad Nacional Autónoma de México

MV12

Identification of biosynthetic gene clusters in Acinetobacter pittii strains with possible antifungal activity against Batrachochytrium dendrobatidis and Botrytis cinerea

Elena Bello-López. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

MV13

Cystatin C: Antimicrobial and immunoregulatory role in macrophage infected with P. gingivalis

Blanca Esther Blancas Luciano. Facultad de Medicina. Universidad Nacional Autónoma de México

MV14

Presence and quantification of Cephalixin (CTX), Sulfamethoxazole (sul1) resistance genes, and hydrocarbon degradation related gene (alkB) on the coast of Baja California.

Jesús Tadeo Briseño Guerrero. Instituto de Investigaciones Oceanológicas. Universidad Autónoma de Baja California

MV15

Analysis of the antimicrobial activity of bacteria isolated from native insects of Mexico

Dania Stephanie Brito Beltrán. Instituto de Biotecnología. Universidad Nacional Autónoma de México

MV16

Effect of two mycobacterial proteins on alveolar macrophages activation during Mycobacterium tuberculosis infection

Iris Selene Paredes-González. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

MV17

Antibacterial activity of secreted metabolites from a novel Actinomycete isolated from a Mayan sinkhole

Brian Cárdenas Pérez. Unidad de Química en Sisal. Facultad de Química. Universidad Nacional Autónoma de México

MV18

Evaluation of the antifungal activity of copper (II) sulfate pentahydrate on Moniliophthora roreri

Tania Paulina Carrasco de la Cruz. Universidad Juárez Autónoma de Tabasco

MV19

The thnRDE operon from B. thuringiensis provides immunity to Lactococcus lactis against thurincin H

Luz Edith Casados Vázquez. División de Ciencias de la Vida. Universidad de Guanajuato

MV20

Evaluation and characterization of novel antimicrobials against multidrug-resistant Acinetobacter baumannii

Corina-Diana Ceapă. Instituto de Química. Universidad Nacional Autónoma de México

MV21

Serological evidence of paramyxoviruses related to Porcine orthorubulavirus in Mexican bats
José Luis Cerriteño Sánchez. Instituto Nacional de Investigaciones Forestales Agrícolas y Pecuarias

MV22

Nematicidal activity from lipopeptides produced by Bacillus paralicheniformis
Estefany Thirsa Chavarria Quicaño. Centro de Investigación en Alimentación y Desarrollo, A.C.

MV23

Antibiotic activity of isolated bacteria from a sinkhole located in Sisal, Yucatan
Karla Ortiz-Marcial. Unidad de Química en Sisal, Yucatán. Universidad Nacional Autónoma de México

MV24

Diversity and incidence of endofungal bacteria associated with arbuscular mycorrhizal fungi in agaves and cacti growing in native arid soil
José Daniel Chávez-González. Departamento de Ingeniería Genética. Cinvestav Irapuato. IPN.

MV25

Effect of osmotic shock on the production of K1 toxin from Saccharomyces cerevisiae
Amairani Chávez Vega. Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro

MV26

Characterization of the vacuolar proteases of C. auris and their relationship with autophagy
Daniel Clark Flores. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

MV27

RsmA is a central regulator of pyocyanin synthesis and its auto-protective response in Pseudomonas aeruginosa ID4365, an overproducer strain.
Miguel Cocotl-Yañez. Facultad de Medicina. Universidad Nacional Autónoma de México

MV28

Nitrogen availability determines plant growth promotion and the induction of root branching by the probiotic fungus Trichoderma atroviride in Arabidopsis seedlings
Saraí Esparza Reynoso. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV29

Resistance against inhibition of quorum sensing by autoinducer degrading enzymes
Angel Yahir Estrada Velasco. Facultad de Medicina. Universidad Nacional Autónoma de México

MV30

Roles of RsmA and PqsE on the pyocyanin and alkyl-quinolones synthesis in the marine strain Pseudomonas aeruginosa ID4365.
Misael Josafat Fabian Del Olmo. Facultad de Medicina. Universidad Nacional Autónoma de México

MV31

In silico identification of mutations in the genome of influenza A H1N1 and H3N2 viruses involved in antiviral resistance in Mexico.

Sergio Fierro Torcuato. Facultad de Medicina. Benemérita Universidad Autónoma de Puebla

MV32

Immunomodulatory characterization of peptide GP5T3 from the glycoprotein 5 of the porcine reproductive and respiratory syndrome virus in swine macrophages

Carmen Monserrath Flores García. Escuela Nacional de Estudios Superiores León. Universidad Nacional Autónoma de México

MV33

Antimicrobial activity of curcumin-chitosan nanocomplexes on clinical isolates of infrequent non-fermenting Gram-negative bacilli species (Achromobacter, Burkholderia, and Stenotrophomonas)

Samantha Maribel Flores-Treviño. Facultad de Medicina. Universidad Autónoma de Nuevo León

MV34

Distribution profile of Biosynthetic Gene Clusters in genomes of rhizobacteria strains differing in phytopathogen inhibition and in plant interaction

Saúl Fraire Velázquez. Unidad Académica de Ciencias Biológicas. Universidad Autónoma de Zacatecas

MV35

Genetic diversity and molecular characterization in a set of clinical strains of uropathogenic Escherichia coli producing BLEE.

Viviana Quiroz Luna. Hospital Infantil de México Federico Gómez

MV36

Heterologous expression and characterization of the enzyme encoded by the has gene from Coprinopsis cinerea

Laura Marina Franco-Herrera. Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco

MV37

A phage library for antibiotic therapy isolated from the mangrove area located in Sisal, Yucatan

Astrid Franco Iniestra. Unidad de Química en Sisal, Yucatán. Universidad Nacional Autónoma de México

MV38

Identification and characterization of a Two-component Signal Transduction System that Regulates Acetate Utilization in Thermus thermophilus HB27

Gema García. Centro de Investigación Científica y de Educación Superior de Ensenada

MV39

Development of an immunostimulatory complex based on liposomes with glycyrrhizinic acid coupled with recombinant viral proteins of livestock interest.

José Bryan García-Cambrón. Centro Nacional de Investigación Disciplinaria en Microbiología Animal, INIFAP

MV40

Micrococcus luteus LS570 promotes root branching in Arabidopsis via decreasing apical dominance of the primary root and an enhanced auxin response

Elizabeth García Cárdenas. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV41

Pursuit and characterization of bacteriophages capable of resensitizing multidrug-resistant Pseudomonas aeruginosa strains.

Juan Carlos García Cruz. Facultad de Medicina. Universidad Nacional Autónoma de México

MV42

Antigenicity of PFC chimeric protein (PapG+FimH+CsgA) in serum from pediatric patients with and without UTI

Jesús David García García. Hospital Infantil de México Federico Gómez

OTHERS I**O1**

Analysis of cervical cancer extracellular vesicles and its effect on macrophage polarization

Victor Acevedo Sánchez. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

O2

Autophagic flux in atretic oocytes from prepubertal rats

Dafne Bahena Salmerón. Facultad de Ciencias. Universidad Nacional Autónoma de México

O3

Oncogenic role of NM23-H2 in Breast Cancer Cells

Noemi Baranda Avila. Departamento de Investigación Básica. Instituto Nacional de Cancerología

O4

Adaptation to suspension serum-free medium of a CHO cell line producer of recombinant human erythropoietin

Santiago Benavides-López. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

O5

Parchment coffee extracts and nopal mucilage an alternative against the fungi growth in cultural heritage materials: stone and wood

Emanuel Bojórquez Quintal. Laboratorio de Análisis y Diagnóstico del Patrimonio. El Colegio de Michoacán

O6

Role of the tryptophan in the protection of human gamma D crystallin from UV radiation damage

Yissell Borges-Rodríguez. Centro de Investigación en Dinámica Celular. Universidad Autónoma del Estado de Morelos

O7

In vitro culture of the ectomycorrhizal fungus Laccaria trichodermophora and its effect on infectivity

Alberto Campos López. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

O8

Establishment of a protocol for a three-dimensional culture of cells derived from periodontal ligament

Jose Juan Can Tec. Facultad de Ingeniería Química. Universidad Autónoma de Yucatán

O9

The role of pALT^{nk4a/b} in resistance to the establishment of cellular senescence

Laura Marianna Cano Mateo. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

O10

Contribution of transcription factors Mfd and GreA in Mismatch (MMR)-Dependent Adaptive Mutagenesis of Bacillus subtilis

Andrea Cantador Gámez. Departamento de Biología. Universidad de Guanajuato

O11

Evaluation of antibacterial activity of MV-L endolysin from phiMR11 phage against methicillin-resistant Staphylococcus aureus

César Salvador Cardona Félix. Centro Interdisciplinario de Ciencias Marinas. Instituto Politécnico Nacional

O12

Symplastic transport participation during the Arabidopsis-Azospirillum interaction

Elizabeth Carrillo-Flores. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

O13

Search for inhibitors to delay the aggregation of crystallin γ S induced by UVB radiation.

Kimberly Castañeda Gutierrez. Centro de Investigaciones Químicas. Universidad Autónoma del Estado de Morelos

O14

Cloning and expression of PigMAP protein by recombinant system for its potential use in the evaluation of animal welfare in pigs

Carlos Alfonso Castro Roca. Unidad Xochimilco. Universidad Autónoma Metropolitana

O15

Immunogenicity of a recombinant rHN-PorPV produced by E. coli of Porcine rubulavirus gives protective immunity of litter after challenge

José Luis Cerriteño Sánchez. Centro Nacional de Investigación Disciplinaria en Salud Animal e Inocuidad. Instituto Nacional de Investigaciones Forestales Agrícolas y Pecuarias

O16

Characterization of the productive calcium release mode of the endoplasmic reticulum in HeLa cells

Rodrigo Contreras Gaytán. Departamento de Bioquímica. Cinvestav Zacatenco

O17

Presence of S-RNase in the pollen tube cytoplasm triggers Program Cell Death in Nicotiana tabacum?

Yuridia Cruz González Zamora. Facultad de Química. Universidad Nacional Autónoma de México

O18

Hemicellulolytic capacity of different pathotypes of Colletotrichum lindemuthianum in culture with natural substrates

Karla Morelia Díaz-Tapia. Facultad de Medicina Veterinaria y Zootecnia. Universidad Michoacana de San Nicolás de Hidalgo

O19

Kiftherapy: a proposal for cannabidiol-based therapy

Fernando Domínguez Jaimes. Unidad de Estudios Superiores Tlaxiácala. Universidad Mexiquense del Bicentenario

O20

Application of Principal Component Analysis in an Animal Model of Metabolic Syndrome Induction

Guadalupe Elena Donjuán Loreda. Facultad de Medicina. Universidad Autónoma de San Luis Potosí

O21

Isolation and identification of microalgae from the leachate lagoon of the sanitary landfill of Tuxtla Gutierrez, Chiapas, for use in bioremediation.

Diego Amando Escobar Pacheco. Tecnológico Nacional de México. Instituto Tecnológico de Tuxtla Gutiérrez

O22

Biosynthesis and emission dynamics of camphene in Beauveria pseudobassiana

Verónica del Rosario Frías Negrete. Laboratorio Nacional de Genómica para la Biodiversidad. Cinvestav Unidad Irapuato

O23

Structural and biochemical characterization of components from the scorpion venom Centruroides tecomanus

Alan Roberto Galván Hernández. Facultad de Ciencias Químicas. Universidad de Colima

O24

Analysis of the occupancy of the transcription factor MEOX2 in the Lung Cancer Epigenome: A Comparative Bioinformatic Analysis

Mariana García Jiménez. FES Iztacala. Universidad Nacional Autónoma de México

O25

AtRAC7/ROP9 small GTPase as a novel negative regulator player in A. thaliana-B. cinerea interaction

Ivette García Soto. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

O26

Phenotypic characterization of lung fibroblasts derived from Mmp8-Mmp13 double knockout mice

María de los Ángeles García Vicente. Facultad de Ciencias. Universidad Nacional Autónoma de México

O27

FTIR analysis of the functionalization of ZnO nanowires for the immobilization of Antibodies

Claudia Erandy Garduño García. Centro de Investigación en Biotecnología Aplicada. Instituto Politécnico Nacional

O28

*Study of the regulation of the *Humphreya coffeata* terpenome by carbon source*

Ricardo Alfonso González Hernández. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

O29

Simultaneous Aerobic-Anaerobic Biodegradation Of An Industrial Effluent Of Polymeric Resins With High Phenol Concentration At Different Organic Loading Rates In A Non-Conventional UASB Type Reactor

Jesus Terreros Mecalco. Ingeniería en Tecnología Ambiental. Universidad Tecnológica del Valle de Toluca

O30

*Inhibition of *Colletotrichum gloeosporioides* with ethanolic extract of *Lippia graveolens**

Karla Daniela Gutiérrez-Pérez. Universidad Tecnológica de Morelia

O31

Design of Self-assembled Antimicrobial Protein-based Nanoparticles

Eddie Guillermo Sánchez Rueda. Instituto de Química. Universidad Nacional Autónoma de México

O32

Robust and Validated UPLC-MS/MS Method for Assessment L-arginine, ADMA, and L-Citruline Levels in Mexican Pregnant Women with Risk of Preeclampsia

Jessica Hernandez Pineda. Instituto Nacional de Perinatología Isidro Espinosa de los Reyes

O33

*Effects of gold nanoparticles functionalized with polyethyleneimine on the moss *Physcomitrium patens**

Zuleika Orbe Sosa. Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas. Instituto Politécnico Nacional

O34

Search for ligand binding sites on FABP4 protein by X-ray crystallography

Maria Fernanda Huerta Anguiano. Instituto Potosino de Investigación Científica y Tecnológica A.C.

O35

Development of a rapid gold nanoparticles-based lateral flow immunoassay for the detection of dengue virus

Cynthia Martinez Liu. Facultad de Medicina. Universidad Autónoma de Nuevo León

REACTIVE OXYGEN SPECIES

ROS1

Association of SOD2 rs4880 polymorphism with non-alcoholic fatty liver disease (NAFLD)

Miriam Fabiola Ayón Pérez. Unidad Académica de Ciencias Químico Biológicas y Farmacéuticas. Universidad Autónoma de Nayarit

ROS2

Comparison of three diets effect on oxidant status and antioxidant capacity in liver and heart in Wistar rats

Miguel Tlacaclael Candelario Domínguez. Universidad Michoacana de San Nicolás de Hidalgo

ROS3

Markers of oxidative stress in postmenopausal women with metabolic syndrome

César Ariel Cruz-Pérez. Instituto Nacional De Perinatología "Isidro Espinosa De Los Reyes".

ROS4

Catalase genes expression in response to H₂O₂ and NaCl is partially regulated by Hog1 MAPK in Debaryomyces hansenii

Ileana de la Fuente Colmenares. Facultad de Ciencias. Universidad Nacional Autónoma de México

ROS5

Respirasome is more susceptible to heavy metal inactivation than free-complex I, but prevent ROS production

Jaime Abraham De Lira Sánchez. Facultad de Medicina. Universidad Nacional Autónoma de México

ROS6

Glucosamine effect on ROS production expression in human dermal microvascular endothelial cells-1

Berenice Fernández Rojas. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

ROS7

Frataxin expression in PC12 and DBTRG-05MG cells in response to chemical hypoxia

Lucero Monserrat Galindo-Moreno. Instituto Nacional de Neurología y Neurocirugía Manuel Velasco Suárez

ROS8

Role of YwqN and YhdA Oxidoreductases in Bacillus subtilis Oxidative Stress

Beatriz Rufina González Pérez. Departamento de Biología. Universidad de Guanajuato

ROS9

Autophagy adaptor p62 localization during cytotoxic stress in lung epithelial cells

Pamela Esperanza Gutiérrez Chávez. Facultad de Ciencias. Universidad Nacional Autónoma de México

ROS10

Mitochondrial HCN3 potassium channel involvement in autophagy, oxidative stress and apoptosis of rat renal proximal tubule cells

Zinaeli López González. Facultad de Medicina. Universidad Nacional Autónoma de México

ROS11

Evaluating the effect of curcumin on the metacestode of Taenia crassiceps.

José de Jesús Martínez González. Facultad de Medicina. Universidad Nacional Autónoma de México

ROS12

Mfd-dependent processing of 8-OxoG activates a RecA-dependent checkpoint that controls the onset of sporulation in Bacillus subtilis

Lissett E. Martínez Magaña. Departamento de Biología. Universidad de Guanajuato

ROS13

Redox regulation of the mitophagy receptor Atg32

Ariann E. Mendoza-Martínez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ROS14

Role of NusG/NusA in transcriptional mutagenesis of Bacillus subtilis

Edwin Antonio Negrete Duran. Departamento de Biología. Universidad de Guanajuato

ROS15

S-sulfenylation and S-persulfidation in Saccharomyces cerevisiae during cellular growth

Jorge Damián Ramírez Robles. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ROS16

Oxidation of Mitochondrial Calcium Uniporter as a trigger of intracellular Ca²⁺ mishandling and spontaneous contraction in catecholamine-induced arrhythmia

Felipe Salazar Ramírez. Escuela de Medicina y Ciencias de la Salud. Tecnológico de Monterrey

ROS17

Effect of Apocynin on Expression of Genes Involved in the Antioxidant Response in Diabetic Skeletal Muscle

Elizabeth Sánchez Duarte. Departamento de Ciencias Aplicadas al Trabajo. Universidad de Guanajuato

ROS18

Correlation between circulating cell-free mitochondrial DNA damaged levels and metabolic syndrome factors in a Mexican pediatric population

Mónica Malú Velásquez Esparza. Escuela de Medicina y Ciencias de la Salud. Tecnológico de Monterrey

SYSTEMS BIOLOGY & BIOINFORMATICS I**SB1**

Memory in transcriptional regulatory dynamics of Escherichia coli in stressful environments

Oscar Bruno Aguilar Luviano. Center for Genomics Science. Universidad Nacional Autónoma de México

SB2

In silico characterization of BGC's of Lanthipeptides II located by Genome Mining in Clostridials

Moisés Alejandro Alejo Hernández. Instituto de Química. Universidad Nacional Autónoma de México

SB3

Hormone signaling crosstalk in the Arabidopsis interactome

Lucia Carolina Alzati Ramírez. Instituto Tecnológico Superior de Irapuato

SB4

Structural basis and functional specificity of a cyclo/maltodextrin ABC importer system from Thermoanaerobacterales

Jorge Ivan Aranda Caraballo. Universidad de Colima

SB5

Metabolic responses of bacterial communities to discharged xenobiotics by the Chicxulub Ring of Cenotes

Luis Alejandro Ávila-Castro. ENES – Mérida. Universidad Nacional Autónoma de México

SB6

Quest for bacteriophages in soils and rhizospheres from Mexico

Nathalia Badillo Mantilla. Facultad de Ciencias. Universidad Nacional Autónoma de México

SB7

In silico and in vitro study of anti proliferative compounds in breast cancer for PKM2 and HDAC8"

Joselyn Jimena Bahena Montoya. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

SB8

Regulation of transcriptome of trophoblast cells by calcitriol and TGF- β 1

David Barrera. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

SB9

Urine and plasma metabolomics revealed endothelial damage in subjects with the coronavirus disease (COVID-19)

Rommel Alejandro Carballo Castañeda. Centro de Investigación Científica y de Educación Superior de Ensenada

SB10

Comparative molecular dynamics simulations of anti-apoptotic Bcl2 protein in apo and holo forms

Luis Alberto Caro-Gómez. Tecnológico de Estudios Superiores de Huixquilucan

SB11

Structural blockade of Omicron's Spike protein by polyphenolic compounds.

Susana Regina Castro Jiménez. Universidad Autónoma Metropolitana - Iztapalapa

SB12

Identification of a conjugative plasmid in Gallibacterium anatis isolated from backyard birds.

María Elena Cobos Justo. Instituto de Ciencias. Universidad Autónoma de Puebla

SB13

Diversity of secondary metabolite biosynthetic gene clusters present in metagenomes of sediments from one sinkhole of Yucatan.

Perla Analuz Contreras de la Rosa. Centro de Investigación Científica de Yucatán A.C.

SB14

In silico prediction of BmVDAC isoforms and their interaction with Bos taurus plasminogen.

Iván Corona Guerrero. Universidad Autónoma de la Ciudad de México

SB15

Sequencing of the Coffea arabica genome and determination of some of its evolutionary characteristics.

Marcos David Couoh Cauich. Centro de Investigación Científica de Yucatán A.C.

SB16

The role of non-coding SNPs associated with Alzheimer's disease in neuronal subpopulations of frontal and entorhinal cortex.

Erick Cuevas Fernández. Facultad de Nutrición. Universidad Autónoma del Estado de Morelos

SB17

Assembly patterns and dynamics of synthetic microbial communities based on competitive interactions

Haydee De Luna-Valenciano. Center for Genomic Sciences. Universidad Nacional Autónoma de México

SB18

Detecting recombination in SARS-COV by using information theory in a bayesian context

Luis Delaye. Cinvestav Unidad Irapuato

SB19

Aberrant CLDN6 expression in gastric cancer is associated with enhanced cholesterol metabolism and reduced cytotoxic activity.

Sanyog Dwivedi. Faculty of Medicine. Universidad Nacional Autónoma de México

SB20

Congenital absence of uterus and vagina: a gene interactions analysis based on PPI networks

Fernando Fernández Ramírez. Hospital General de México "Dr. Eduardo Liceaga". Facultad de Ciencias, UNAM

SB21

In silico study of new inhibitors of the human Ornithine decarboxylase

Jessica Georgina Filisola Villaseñor. Cinvestav Zacatenco

SB22

Implications of the crystal structures topology of SARS-CoV-2 main protease (Mpro) in molecular docking

Getulio Flores Tlalpa. ICUAP. Universidad Autónoma de Puebla

SB23

Construction and Analysis of Gene Co-Expression networks of Ustilago maydis

Edgardo Galán Vásquez. Instituto de Investigación en Matemáticas Aplicadas y en Sistemas. Universidad Nacional Autónoma de México

SB24

Prediction of protein-protein interactions and molecular docking of the putative protein Ermp1 from the yeast S. pombe

Dalia González Esparragoza. Instituto de Ciencias. Universidad Autónoma de Puebla

SB25

Analysis of EccD3, ESX3 secretion system component as Mycobacterium tuberculosis drug target.

Ana Laura Granados Tristán. Facultad de Ciencias Biológicas. Universidad Autónoma de Nuevo León

SB26

Insights into the coastal microbial antibiotic resistance through a meta-transcriptomic approach in Yucatan

Francisco Alejandro Guillén Chable. UMDI-Sisal, Universidad Nacional Autónoma de México

SB27

Docking analysis on molecular targets and mechanisms of Tau protein in the treatment of frontotemporal dementia.

Ana Luisa Hernández Cruz. Escuela Superior de Apan. Universidad Autónoma del Estado de Hidalgo

SB28

Computational study of the T-type voltage-dependent calcium channel (CACNA1G)

Beatriz Hernández Estrada. Facultad de Química. Universidad Autónoma de Querétaro

SB29

Chronic exposure to petroleum-derived hydrocarbons alters the skin bacterial communities and metabolite profiles

Alan Gerardo Hernández-Melgar. Centro de Investigación Científica y de Educación Superior de Ensenada

SB30

CDK-kinase activity inhibition impacts the carbon metabolism in maize germination

Aurora Lara Núñez. Facultad de Química. Universidad Nacional Autónoma de México

SB31

Transcriptomic Analysis of the CM-334/P. capsici/N. aberrans Pathosystem reveals molecular modulation during resistance-breaking response

Mariana Romo Castillo. Colegio de Postgraduados Campus Montecillo

SB32

Genomic analysis of different pathotypes of Colletotrichum lindemuthianum

Ma. Irene Morelos-Martínez. CMEB. Universidad Michoacana de San Nicolás de Hidalgo

SB33

Estimation of interaction strengths in the E. coli regulatory network

Jerónimo Martí Vértiz. Center for Genomic Sciences. Universidad Nacional Autónoma de México

TOXICOLOGY AND PHARMACOLOGY I**TP1**

The MoBiMS: A miniature mass spectrometer for monitoring volatiles in biological systems

Raul Alcalde Vazquez. Laboratorio Nacional de Genómica para la Biodiversidad. Cinvestav Irapuato

TP2

5-FU and tamoxifen modify mCRP expression and CSC percentage in SW480 cells

Sofia Alvarez Lorenzo. Facultad de Medicina. Universidad Nacional Autónoma de México

TP3

Aberrant cytokinesis as an alternative mechanism of paclitaxel toxicity in cancer treatment

Marco Alonso Andonegui Elguera. Instituto Nacional de Cancerología

TP4

Expresión of prorenin/renin receptor and its function on cardiovascular system in the offspring of preeclamptic rats

Adriana Yajseel Arenas García. Escuela Superior de Medicina. Instituto Politécnico Nacional

TP5

Non-described itraconazole effect on immunity cells in a murine-eumycetoma treatment

Iván Alejandro Banda-Flores. Facultad de Estudios Profesionales Zona Huasteca. Universidad Autónoma de San Luis Potosí

TP6

Hydrogen sulfide improves vascular dysfunction induced by chronic stress restraint in rats

Jesus Hernan Beltran Ornelas. Departamento de Farmacobiología. Cinvestav Sede Sur

TP7

Exposure to bis (2-ethylhexyl) phthalate (DEHP) induces oxidative stress in human skeletal muscle cells

Elizabeth Brassea Pérez. Centro de Investigaciones Biológicas Del Noroeste S.C.

TP8

Testosterone enhances, via a genomic pathway, airway smooth muscle relaxation induced by salbutamol and theophylline, two drugs useful in the treatment of asthma.

Abril Carbajal García. Facultad de Medicina. Universidad Nacional Autónoma de México

TP9

Related-Thyroid hormone genes are altered by acute exposure to 2,4-dichlorophenoxyacetic in rat testes

Vanessa Conde Maldonado. Universidad Autónoma de Tlaxcala.

TP10

Cytotoxic Effect of Ethanol Extracts of Brazilian Propolis on Human Colorectal Adenocarcinoma Cells

Jesús Antonio Erro Carvajal. Universidad de Sonora

TP11

DNA damage during mitotic slippage as a new mechanism of paclitaxel toxicity

Marco A Escobar-Arrazola. Unidad de Investigación Biomédica en Cáncer, Instituto de Investigaciones Biomédicas. UNAM

TP12

Comparison of Lachesis acrochorda venom composition organism of different biogeographic zones from Colombia

Adrián Marcelo Franco Vásquez. Instituto de Química. Universidad Nacional Autónoma de México

TP13

Kynurenine attenuates mitochondrial depolarization and neuronal cell death AhR-independent way in a Parkinsonian model induced by rotenone exposure.

María Del Rosario García Aguilar. Departamento de Toxicología. Cinvestav Zacatenco

TP14

Punica granatum peel extract affects Giardia lamblia trophozoites cytoskeleton

Mariana Garza Ontiveros. Facultad de Ciencias Químicas. Universidad Autónoma de Coahuila

TP15

NON-contact co-culture for in vitro cytotoxicity assessment of the recombinant anticancer proteins TAT-PTEN-LTV and KLA-PTEN-LTV

Aldo O. González Cruz. Facultad Ciencias Químicas. Universidad Autónoma de Nuevo León

TP16

UVB and UVC inhibits cellular processes related to carcinogenesis in cervical cancer cell lines

Angelica Judith Granados López. Unidad Académica de Ciencias Biológicas. Universidad Autónoma de Zacatecas

TP17

Design, production, and evaluation of the recombinant protein E4orf4 linked to the cell penetrating peptide MAP as a new agent against cancer

Javier Hernández Juárez. Facultad de Ciencias Químicas. Universidad Autónoma de Nuevo León

TP18

Role of GTPases in the cytoskeleton re-arrangement and cell migration of murine macrophages as a target of organophosphate pesticide residues

David Sebastián Hernández Toledano. Departamento de Toxicología. Cinvestav Zacatenco

TP19

Structural and antimicrobial characterization of the most abundant components from the venom of the scorpion Thorellius intrepidus

Rodrigo Ibarra Vega. Facultad de Química. Universidad de Colima

TP20

Characterization of Ibervillea sonoroe root extracts obtained with different solvents and their cytotoxic activity on glioma cell line.

Judith Yamile Jiménez Pereyra. Instituto Nacional de Neurología y Neurocirugía Manuel Velasco Suárez. Universidad Autónoma Metropolitana

TP21

The antipsychotic drug, penfluridol, inhibits Kv10.1 channels

Paulina León Sánchez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

TP22

Biological effect of 4H-Benzo[d][1,3]oxazines in Breast Cancer Cells

Jesús Adrián López. Unidad Académica de Ciencias Biológicas. Universidad Autónoma de Zacatecas

TP23

Leukocyte mTNF- α as a mechanism of adaptation to inflammatory processes in lead-exposed workers: NADPH oxidase as a mediator of oxidative stress

Nadia Cristina López Vanegas. Departamento de Bioquímica. Cinvestav Zacatenco

TP24

Effects of resveratrol against Giardia lamblia trophozoites through in silico and in vitro approaches

José Roberto Vargas Villanueva. Facultad de Ciencias Químicas. Universidad Autónoma de Coahuila

TP25

Potential role of TNF- α and TNFRs in CSCs enrichment induced by Doxorubicin in triple negative breast cancer

María Adriana Medina Mondragón. Facultad de Medicina. Universidad Nacional Autónoma de México

TP26

Evaluation of the toxic activity of hexanic extract of Sedum morganianum

Cristian Romero Castillo. Universidad Popular Autónoma del Estado de Puebla

TP26.1

Metal complexes formed with EDTA, melatonin, and its main metabolites: Computational DFT study and implications for a lead intoxication alternative treatment

Juvencio Robles Garcia. Departamento de Farmacia. Universidad de Guanajuato



POSTERS SESSION II
TUESDAY, OCTOBER 18

BASIC BIOCHEMISTRY II

BB31

The respiratory chain of Rhodotorula mucilaginosa

Paulina Castañeda Tamez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB32

Characterizing the structural sensitivity of plant intrinsically disordered regions in vivo

Constanza Enriquez-Toledo. Facultad de Química. Universidad Nacional Autónoma de México

BB33

Folding and Evolution of a Repeat Protein on the Ribosome

José Arcadio Farías-Rico. Center for Genome Sciences. Universidad Nacional Autónoma de México

BB34

Proteomic approach in coconut fruit ripening: an insight in amino acid metabolism

Jean Wildort Félix. Centro de Investigación Científica de Yucatán A.C.

BB35

Effect of heat stress on seeds of tolerant and susceptible genotypes of wheat (Triticum aestivum) grown in the Yaqui Valley

Katheryne Fernández Padilla. Centro de Investigación en Alimentación y Desarrollo, A.C.

BB36

Kinetic characterization of respirasomes from Debaryomyces hansenii

Giovanni García Cruz. Facultad de Medicina. Universidad Nacional Autónoma de México

BB37

N-Nitrosodimethylamine regulates claudin expression and invasiveness in gastric cancer cells

Carlos Abraham García García. Facultad de Medicina. Universidad Nacional Autónoma de México

BB38

Acute hypoxia effects on MMPs enzymatic activity and expression in lung adenocarcinoma and squamous carcinoma cells.

Antonio Armando García Hernández. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

BB39

Transcriptional regulation of glutamate receptors in habanero pepper plants under NaCl stress conditions

Federico García Laynes. Centro de Investigación Científica de Yucatán A.C.

BB40

Rtg1 and its possible role in the formation of the Nrg1-Rtg3-Ala hybrid complex in the yeast Saccharomyces cerevisiae

Janeth Alejandra García Rodríguez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB41

Structural characterization of the Lid of lipase 2 of Pseudomonas alcaligenes

Elena Lizbeth Garcia Villegas. Centro de Investigación en Dinámica Celular. UAEM

BB42

Kinetics of the enzyme Arginine kinase from ticks (Rhipicephalus sanguineus) vector of Rocky Mountain spotter fever (RMSF)

Karina D. García-Orozco. Centro de Investigación en Alimentación y Desarrollo, A.C.

BB43

Effect of glycolysis inhibition on mitochondrial function in human glioblastoma cells

Gigi Abril Garrido-Aguirre. Instituto Nacional de Neurología y Neurocirugía Manuel Velasco Suárez

BB44

Priming mycobacterial esx-secreted protein B to form a channel-like structure

Abril Gijbsbers. Instituto de Química. Universidad Nacional Autónoma de México

BB45

Identification and In Silico Characterization of Novel Helicobacter pylori Glucose-6-Phosphate Dehydrogenase Inhibitors

Saúl Gómez Manzo. Laboratorio de Bioquímica Genética, Instituto Nacional de Pediatría

BB46

Metabolomic analysis of liquid endosperm of Cocos nucifera L. in three stages of maturation

José Rufino Gómez Tah. Centro de Investigación Científica de Yucatán A.C.

BB47

The mean hydrophobicity of OXPHOS proteins is the limiting factor for the allotopic expression of mitochondrial genes

Diego González Halphen. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB48

Proteomic analysis of coconut zygotic embryos at three different stages of development

María Inés Granados Alegría. Centro de Investigación Científica de Yucatán A.C.

BB49

The Hap2-3-5-Gln3 Hybrid Transcriptional Complex: Identification of its Organization and the Gene Circuit Under Your Control

Nancy Yasmin Gutiérrez-Méndez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB50

The Argemone-Corynespora system as model for the study of the contribution of benzylisoquinoline alkaloids in plant-fungus interactions.

Gladys del Carmen Hernández-Eleria. Centro de Investigación Científica de Yucatán A.C.

BB51

Self-assembly of Artificial Virus-Like Nucleocapsids programmed by CRISPR-dCas12

Armando Hernández García. Institute of Chemistry. Universidad Nacional Autónoma de México

BB52

Study of Complex II biogenesis in Saccharomyces cerevisiae

Ulrik Hiram Pedroza Dávila. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB53

Study of the effect of cations on the activity of recombinant LDH-1 and LDH-2 from shrimp Litopenaeus vannamei

Magally Luisa Elena Hernandez Palomares. Centro de Investigación en Alimentación y Desarrollo, A.C.

BB54

Liver versus Cardiac Mitochondria: Comparison of Some Effectors on the Mitochondrial Permeability Transition Pore.

Carolina Ricardez García. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB55

Biochemical characterization of orotate phosphoribosyltransferase from Coffea arabica

Alexis Hinojosa Cruz. Facultad de Química. Universidad Nacional Autónoma de México

BB56

The human copper transporter 1 (hCTR1) as a possible transporter of Casiopeina III-ia in MDA-MB-231 cells

Rogelio Hurtado Alamea. Facultad de Química. Universidad Nacional Autónoma de México

BB57

Cholesterol dependence of Na,K-ATPase enzyme activity of erythrocytes in normal and hyperglycemic blood samples

Aura Matilde Jiménez Garduño. Escuela de Ciencias. Universidad de las Américas Puebla

BB58

Hydrogen sulfide synthesis by yeast cystathione β -synthase is required to survive ER stress.

Elias Nieto Zaragoza. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB59

Evaluation of the expression of genes encoding pectin methyl esterases in solid endosperm of coconut
Dilery Ahtziry Juárez Monroy. Centro de Investigación Científica de Yucatán A.C.

BB60

Evaluation of different carbon sources in the production of carotenoids in the yeast Rhodotorula mucilaginosa

Ofelia Alejandra Mendez Romero. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BIOTECHNOLOGY I**BT1**

Characterization of a chitosan-DNA nanoparticle encoding to somatotropin porcine

María Leticia Almada Leyva. Facultad de Medicina Veterinaria y Zootecnia. Universidad Nacional Autónoma de México

BT2

In silico analysis of the expression of glycosyltransferases in a lignocellulose degrading consortium

Mariana Aurora Almeida Cervera. Facultad de Ingeniería Química. Universidad Autónoma de Yucatán

BT3

Metal-binding peptides displayed on the Neurospora crassa mycelium to obtain functionalized surfaces

Francisco Javier Anguiano Melendrez. Biotecnología Industrial. Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C.

BT4

Removal of Cr(VI) through a filamentous fungal bioreactor coupled to a biotrickling filter (BLE)

Rogelio Arroyo López. Centro de Innovación Aplicada en Tecnologías Competitivas

BT5

Expression of a new incretin analog in Lactococcus lactis

Isaias Balderas-Renteria. Universidad Autónoma de Nuevo León. Institute National de la Recherche Agronomique

BT6

Pseudomonas chlororaphis: a versatile non pathogenic bacterium host for Synthetic Biology

Miguel Angel Bello González. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

BT7

Determination of Crystallographic Structures by Phase Expansion in Fusion Proteins

María Cristina Cardona Echavarría. Centro de Investigación en Dinámica Celular. Universidad Autónoma del Estado de Morelos

BT8

Heterologous expression of a consensus long α -neurotoxin for antibody production against elapid envenomation

Víctor Carpanta Capistran. Instituto de Biotecnología. Universidad Nacional Autónoma de México

BT9

Proteomic analysis of Alicyclophilus denitrificans BQ1 grown on Impranil, a polyester polyurethane coating
Sergio Andres Carreño Florez. Facultad de Química. Universidad Nacional Autónoma de México

BT10

Antigenicity evaluation of P16 protein from genotype A by using naturally infected goats and sheeps plasmas

María Azucena Castañeda Montes. FES Cuautitlán. Universidad Nacional Autónoma de México

BT11

Characterization of small ruminant lentivirus capsid recombinant protein (SRLV-rp25) coupled to immunostimulatory complexes based on glycyrrhizinic acid

María Azucena Castañeda Montes. FES Cuautitlán. Universidad Nacional Autónoma de México

BT12

Low-cost biogas purification system from a full-scale biodigester

Jesús Emiliano Castellanos Sánchez. Facultad de Agronomía. Universidad Autónoma de Chiapas

BT13

Aluminum effect over betalains production in Stenocereus queretaroensis suspension cells

Lizbeth A. Castro-Concha. Unidad de Bioquímica y Biología Molecular de Plantas. Centro de Investigación Científica de Yucatán A.C.

BT14

Advantages of using an automated platform for SARS-COV-2 sequencing in a clinical landscape.

Jonathan Cervantes. Laboratorio de Patología Quirúrgica y Citología de Puebla

BT15

Droplet Digital PCR for Analysis of HIV Copy Number Variation

Jonathan Cervantes. Laboratorio de Patología Quirúrgica y Citología de Puebla

BT16

Glycerol kinase driven monophosphorylation of small alcohols

Wendy Escobedo-Hinojosa

Facultad de Química. Universidad Nacional Autónoma de México

BT17

Are the genes NMO2 and NMO5 of Metarhizium brunneum involved in the entomopathogenic process?

Ximena Esquivias Varela. Departamento de Biología. Universidad de Guanajuato

BT18

Heterologous expresion of a rickettsial outer membrane protein

Blanca Elisa Estrada Aguirre. Universidad Autónoma de Chihuahua

BT19

Isolation and Characterization of Thermophilic Microorganisms of Biotechnological Interest of Hot Springs from San Francisco, Silao, Gto., Mx.

Jose Maria Fernandez Romero. Unidad Profesional Interdisciplinaria de Ingenieria. Instituto Politécnico Nacional

BT20

A ferrofluid with a dopamine or tetrahydroquinone modified surface for magnetic hyperthermia using Paramecium caudatum

Ximena Alejandra Flores Arévalo. Centro Universitario de la Ciénega. Universidad de Guadalajara

BT21

Biochemical and proteomic analysis from in vitro culture of avocado (Persea americana Mill.)

Rosa María Galaz Avalos. Unidad de Bioquímica y Biología Molecular de Plantas. Centro de Investigación Científica de Yucatán A.C.

BT22

Synthesis of a recombinant RmS-17 polypeptide from Rhipicephalus microplus in the Pichia pastoris expression system

José Bryan García Cambrón. CENID-SAI-INIFAP-Palo Alto

BT23

DNA-Chitosan complexes as non-viral gene carrier: Newcastle Fusion gene nanoparticle formation

Lluvia Isabel García-Córdoba. Universidad Abierta y a Distancia de México-UnADM.

BT24

Identification of genes differentially expressed of Metarhizium during the interaction with insects

Melissa García Fernández. División de Ciencias Naturales y Exactas. Universidad de Guanajuato

BT25

Molecular cloning and functional characterization of banana MaWRKY18, MaWRKY45, MaWRKY60 and MaWRKY70 transcription factors

Sergio García Laynes. Unidad de Biotecnología. Centro de Investigación Científica de Yucatán A.C.

BT26

Role of Wickerhamomyces anomalus β -glucanase toxin during the interaction of the yeast and phytopathogenic fungus

María Guadalupe Guerra Sánchez. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

BT27

Monitoring The Crabtree Effect in Yeast Culture Using the MoBiMS Mass Spectrometer System Built

Héctor Guillén-Alonso. Laboratorio Nacional de Genómica para la Biodiversidad. Cinvestav Irapuato

BT28

Xylitol production by Clavispora lusitaniae, a native yeast of mezcal must

David Guzmán Hernández. Departamento de Biotecnología y Bioingeniería. Cinvestav Zacatenco

BT29

Analysis of the Carbohydrate Transport System in Saccharomyces pastorianus

César Ignacio Hernández Vásquez. Facultad de Ciencias Biológicas. Universidad Autónoma de Nuevo León

BT30

Analysis of the influence of genes that code for proteins with nitronate monooxygenase activity in the different lifestyles of Metarhizium

Diana Laura Herrera Lino. División de Ciencias Naturales y Exactas. Universidad de Guanajuato

BT31

Generation and characterization of Arabidopsis plants overexpressing the PABN3 and CL15, which are interactors of Glycine-Rich Domain Protein 2

Juan Francisco Jiménez Bremont. Instituto Potosino de Investigación Científica y Tecnológica A.C.

BT32

Evaluation of multifunctional qualities of the rhizobian species Rhizobium sp. ACO-34A as a plant growth promoter rhizobacteria

Víctor Manuel Maranto Gómez. Tecnológico Nacional de México campus Tuxtla Gutiérrez

GENETICS, EPIGENETICS & GENETIC REGULATION II**G28**

Exploring the functional role of the OmpR-type regulators in R. etli.

María M. Banda. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G29

Regulation of PGR, PRL, and IGFBP1 gene expression in response to in vitro decidualization in endometrial stromal cells from a patient with endometriosis

Martha Paloma Domínguez Mora. Facultad de Química. Universidad Nacional Autónoma de México

G30

Functional characterization of the NPR1-NPR3 interaction in the Pseudomonas syringae-Arabidopsis thaliana pathosystem

Everardo Jair Flores Cuevas. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G31

Gene co-expression network driven approach to decode the role of miR-122 in triple-negative breast cancer

Mauricio Flores Fortis. Universidad Autónoma Metropolitana Unidad Cuajimalpa

G32

Molecular Basis of Binary Complexes of LysR-Type Transcriptional Regulators

Moisés Alain Flores Hernández. Escuela Superior de Apan. Universidad Autónoma del Estado de Hidalgo

G33

Molecular Characterization and Differential Expression to Hypoxia and Reoxygenation of Hexokinase Isoforms of the Shrimp Litopenaeus vannamei

Marissa Andrea Flores Saucedo. Centro de Investigación en Alimentación y Desarrollo, A.C.

G34

Comparative study of the regulation of autophagy and senescence between mice and naked-mole rats

Berenice Franco-Juárez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

G35

Plant-associated bacteria (PAB): Resources of specialized metabolites.

Reynaldo Villanueva Enríquez. Instituto de Química. Universidad Nacional Autónoma de México

G36

microRNAs contained in hepatoma cells-derived extracellular vesicles modulate miRNA biogenesis elements: a new regulatory mechanism for cell proliferation and migration in HCC.

Rosendo García Carrillo. Centro Universitario de Investigaciones Biomédicas. Universidad de Colima

G37

Development of a whole cell biosensor using Bacillus subtilis spores for arsenic detection in water.

Luz Idalia Valenzuela García. Centro de Investigación en Materiales Avanzados, Subsede Durango

G38

Epigenetic regulation, alternative splicing, and function of AGL19 transcription factor

Berenice García-Ponce. Instituto de Ecología. Universidad Nacional Autónoma de México

G39

Target genes, cell processes and miR-23b-3p effect on HMGB2 expression in cervical cancer

Gladys Wendy Valente Niño. Facultad de Ciencias Químico Biológicas. Universidad Autónoma de Guerrero

G40

Unraveling the role of the RetCH2128 and RetCH3587 regulators in the R. etli – P. vulgaris symbiosis

Adrian Gonzalez. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G41

Expression of IL-2, IL-4, IL-5, IL-10 and TGFβ genes in patients with covid-19 in Mexico City.

Jennifer Viridiana Sánchez Camacho. Escuela Superior de Medicina. Instituto Politécnico Nacional

G42

Searching for the cognate response regulator of the essential sensor hybrid histidine kinase RdsA in Rhizobium etli

Carmen Guadarrama. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G43

Characterization of Cross-kingdom tRH-target interactions and their role in Trichoderma atroviride-Arabidopsis thaliana mutualistic relationship

Daniel Rafael Saldaña Torres. Instituto Potosino de Investigación Científica y Tecnológica A.C.

G44

The role of JMJ19 and DNA-PrimL genes in Arabidopsis thaliana as potential targets of Trichoderma atroviride small RNA1 during their mutualistic relationship

Eyra Judith Hernández Hernández. División de Biología Molecular. Instituto Potosino de Investigación Científica y Tecnológica A.C.

G45

An Insight into the novel hybrid regulation complex Rtg3-Nrg1 of Saccharomyces cerevisiae

Edgar Adrian Ramirez Gonzalez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

G46

Identification of proteins that interact with the transcriptional repressor Maf1 in the protozoan parasite Leishmania major

Aldo Rodrigo Hernández Zamarripa. FES Iztacala. Universidad Nacional Autónoma de México

G47

Alternative CUG Codon Usage in the Halotolerant Yeast Debaryomyces hansenii: An Analysis of Gene Expression Provides New Insights into Adaptation to Extreme Environments.

Daniel Ochoa-Gutiérrez. Facultad de Ciencias. Universidad Nacional Autónoma de México

G48

Phosphate deficiency activates the Autoregulation of Nodulation Pathway

Mariel Carolina Isidra Arellano. FES Iztacala. Universidad Nacional Autónoma de México

G49

Influence of OxyR on the expression of phaseolotoxin synthesis genes in Pseudomonas savastanoi pv. phaseolicola NPS3121

Rafael Arnulfo Juárez Navarro. Universidad Autónoma de Nayarit

G50

Expression of MAL reduces viability of HCC827 human lung cancer cells

Roberto Lara Iemus. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

G51

Combination of Metformin, Sodium Oxamate and Doxorubicin induces apoptosis and autophagy in colorectal cancer cells via downregulation HIF-1 α

Liliana Leyva Boyso. Laboratorio de Genómica. Instituto Nacional de Cancerología

G52

Serotonin effect in early regeneration of Lumbriculus variegatus

Juana María López Martínez. Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro

IMMUNOLOGY & PARASITOLOGY**IP1**

Effect of testosterone on antioxidant activity and oxidative stress markers in a murine malaria model

Jesús Aguilar Castro. FES Zaragoza. Universidad Nacional Autónoma de México

IP2

EhMyb10 Transcription Factor Interactome: evidence of cotranscriptional regulation

Danna Paola Aguirre Casimiro. Universidad Autónoma de la Ciudad de México

IP3

Mitochondria participation in B cell response against non-bilayer phospholipid arrangements

Giovanna Berenice Barrera Aveleida. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

IP4

Allergenicity profiling of Ligustrum lucidum pollen proteins causing respiratory allergies

Ricardo Neftalí Bravo Rodríguez. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

IP5

DHEA differentially modulates IFN- γ levels in males and females CBA/Ca mice infected with P. berghei ANKA

Fidel Orlando Buendía González. FES Zaragoza. Universidad Nacional Autónoma de México

IP6

Characterization of extracellular vesicles released by the parasite Entamoeba histolytica and evaluation of their immunomodulatory effects on human neutrophils.

Julio César Carrero. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

IP7

DBD-Myb Proteins in E. invadens: Classification and cyst-stage transcription

Elizabeth J. Castañeda-Ortiz. Posgrado en Ciencias Genómicas. Universidad Autónoma de la Ciudad de México

IP8

Oestrogens decrease the number of cytotoxic T lymphocytes and IFN- γ and TNF- α concentration in males infected with Plasmodium berghei ANKA

Luis Antonio Cervantes Candelas. FES Zaragoza. Universidad Nacional Autónoma de México

IP9

Antibody-dependent enhancement in dengue virus infection associated with anti-SARS-CoV-2 IgG class antibodies in the coast region of Oaxaca, Mexico.

Elizabeth Cruz Altamirano. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

IP10

EhMyb10 overexpression in E. histolytica: implications during epithelial cell interaction

Patricia Cuellar. Posgrado en Ciencias Genómicas. Universidad Autónoma de la Ciudad de México

IP11

Evaluation of biological activity of butyl and isopropyl quinoxaline-7-carboxylate 1,4-di-N-oxide esters against Entamoeba histolytica.

Juan Pablo Delgadillo Velazco. Escuela Nacional de Medicina y Homeopatía. Instituto Politécnico Nacional

IP12

T-cell immunophenotype and cytokine profiles in pediatric patients infected with Rickettsia rickettsii

Gerardo Pavel Espino-Solis. Facultad de Medicina. Universidad Autónoma de Chihuahua

IP13

Evaluation of myeloid cell activation in pediatric patients with rickettsial and SARS-CoV-2 infections

Mayela Rosario Espinoza Duarte. Facultad de Química. Universidad Autónoma de Chihuahua

IP14

Subunit C82 of RNA polymerase III is essential for cell growth of the human parasite Trypanosoma brucei

Luis E. Florencio Martínez. FES Iztacala. Universidad Nacional Autónoma de México

IP15

Participation of Tgamma/delta lymphocytes in the development of lupus in mouse induced by lipidic particles

Edgar Iván Galarce Sosa. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

IP16

Prolactin exerts dual actions on the inflammatory response of synovial fibroblasts

Jose Fernando García Rodrigo. Instituto de Neurobiología. Universidad Nacional Autónoma de México

IP17

Determination of the presence of amebapores in trophozoites from different species of Entamoeba, using Western-Blot and ELISA

Augusto González Canto. Facultad de Medicina. Universidad Nacional Autónoma de México

IP18

Plasmodium vivax apical membrane antigen 1 I-II from Nicaragua revealed low diversity, moderate differentiation and genetic relationships with Latin American parasites

Lilia González-Cerón. Secretaría de Salud. Instituto Nacional de la Salud Pública

IP19

Cellular Immune Response on Cherax quadricarinatus after different immunostimulations

Crystal Guluarte. Departamento de Bioquímica. Universidad Nacional Autónoma de México

IP20

Degradative profiles of Fibronectin as biomarkers during the progression of the acute and chronic infection with Trypanosoma cruzi

Nora Adriana Hernández Cuevas. Centro de Investigaciones Regionales Dr. Hideyo Noguchi. Universidad Autónoma de Yucatán

IP21

Development of a chimeric recombinant protein against Rabbit Hemorrhagic Disease Virus

Diego Josimar Hernández-Silva. Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro

IP22

Evaluation of the cross-reactivity of antibodies against DEC-205 receptor in different species

Myriam Rebeca Márquez Chávez. Facultad de Ciencias Químicas e Ingenierías. Universidad Autónoma de Chihuahua

IP23

*Proteomic profile of phagocytosis of shrimp *Macrobrachium tenellum**

Dulce Maria Mateos Guerrero. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

IP24

Activation of intracellular Toll like receptors in combination with vincristine in glioblastoma cells

Orlando Daniel Moedano-Hernández. Hospital Infantil de México Federico Gómez

IP25

*Anti-inflammatory response promoted by *Trichinella spiralis* in an experimental lupus murine model*

Christian-Irene Nevárez-Lechuga. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

IP26

*Cloning and expression in *Nicotiana benthamiana* of the ash pollen allergen *Fra e 1**

Cynthia Lizbeth Nicolás Salazar. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

IP27

*Effect of inhibiting p450 aromatase enzyme on the population of macrophages, TNF- α , IFN- γ and IL-10 in CBA/Ca male mice infected with *P. berghei* ANKA*

Teresita de Jesús Nolasco Pérez. FES Zaragoza. Universidad Nacional Autónoma de México

IP28

Cannabinoid receptor 2 modulates Fc ϵ RI-dependent activation of mast cells

Rubí Monserrat Osorio Pérez. Departamento de Farmacobiología. Cinvestav Sede Sur. Instituto Politécnico Nacional

IP29

High fructose consumption induces the expression of miR 155-5p in monocytes present in liver and epididymal adipose tissue

Mario Peña Peña. Instituto Nacional de Cardiología

IP30

*In silico design of a multi-epitope vaccine construction against *Leishmania mexicana**

Isis Pérez Concepción. Departamento de Investigaciones Científicas y Tecnológicas. Universidad de Sonora

IP31

Evaluation of the early and convalescent immune response of patients infected by SARS-CoV-2

Horacio Pérez Juárez. Facultad de Medicina. Universidad Nacional Autónoma de México

IP32

Effect of membrane perturbing agents on the secreted activity of acid sphingomyelinase in Entamoeba histolytica.

Fátima Ramírez-Montiel. Departamento de Biología. Universidad de Guanajuato

IP33

Evaluation of the effect of Plectranthus amboinicus essential oil against Entamoeba histolytica.

Juan Mauricio Ramírez Vidal. Escuela Nacional de Medicina y Homeopatía. Instituto Politécnico Nacional

IP34

17beta-estradiol inhibits ICAM-1, VCAM-1, p65 expression and increase expression of antioxidant enzymes induced by amyloid beta 25-35 in microvascular endothelial cells (HMEC-1)

Emma Rodríguez Maldonado. Unidad de Investigación UNAM. Instituto Nacional de Cardiología "Ignacio Chávez"

IP35

Development of anti-human IgA monoclonal antibodies to study of mucosal compartments

Héctor Romero-Ramírez. Departamento de Biomedicina Molecular. Cinvestav. Instituto Politécnico Nacional

IP36

In-silico investigation of surface proteins from Sarcocystis spp. that could cause cross reaction in the serological diagnosis of Toxoplasma gondii

Fernando Aarón Rosas Bruno. FES Iztacala. Universidad Nacional Autónoma de México

IP37

TGF- β in the control of T helper lymphocytes populations in melanoma

Andrés Felipe Sáenz Cabezas. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

IP38

Macrophage migration inhibitor factor contributes to pathology by Plasmodium yoelii 17XL infection

Víctor Hugo Salazar Castañón. FES Zaragoza. Universidad Nacional Autónoma de México

IP39

Participation of conventional dendritic cells by flow cytometry in a mouse model of lupus

Anahi Sotelo Rodríguez. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

IP40

Characterization of the Pescadillo protein in the human pathogen Trypanosoma brucei

Emmanuel Torres Morales. FES Iztacala. Universidad Nacional Autónoma de México

IP41

Effect of prenylated chalcones on Trichomonas vaginalis.

Laura Isabel Vázquez Carrillo. Universidad Autónoma de la Ciudad de México

IP42

Klf10 favors Mycobacterium tuberculosis survival by impairing IFN- γ production and preventing macrophages reprogramming to Micropinocytosis

Leonor Pérez Martínez. Instituto de Biotecnología, UNAM

MEDICINE, HEALTH & NUTRITION I**M1**

Paradoxical Activation of TIMP-3 by MMP-28 in cell migration

Arantxa Melissa Aguilar López. Facultad de Ciencias. Universidad Nacional Autónoma de México

M2

Effect of sialic acids α 2-3 and α 2-6 stimulation on proliferation and protein synthesis on oral cavity epidermoid cancer cells

Luis Enrique Ambrosio Castillo. Facultad de Odontología. Universidad Autónoma Benito Juárez de Oaxaca

M3

Altered pathways of hypoxia in lung fibroblasts and their relationship with the development of idiopathic pulmonary fibrosis.

Arnoldo Aquino Gálvez. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

M4

Evaluation of the combination of Metformin, Sodium Dichloroacetate and Caffeine as a treatment for Pulmonary Adenocarcinoma under hypoxic conditions

Arnoldo Aquino Gálvez. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

M5

Periodontal Disease Increase the Expression of ACE2 and TMPRSS2 in Oral Epithelium of Diabetes Mellitus Type 2 patients increasing the risk to infection of SARS-CoV-2.

Juan Antonio Arreguin Cano. Facultad de Estomatología. Benemérita Universidad Autónoma de Puebla

M6

Protective Effect on Human Erythrocytes of Annona Muricata L

Ana Paola Balderrama Carmona. Universidad de Sonora

M7

Acetylation as crucial posttranslational modification in Pulmonary Arterial Hypertension

Judith Bernal-Ramirez. The Institute for Obesity Research. Tecnológico de Monterrey

M8

Nutritional status of a population with a high incidence of chronic kidney disease of unknown etiology in the Eastern part of Michoacan state

Beatriz Cabezas Núñez. Facultad de Ciencias Médicas y Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

M9

Identification of unfolded protein response markers in lungs from Hypersensitivity Pneumonitis patients

Sandra Cabrera Benítez. Facultad de Ciencias. Universidad Nacional Autónoma de México

M10

Autophagy and SPC maintain stemness potential in age-accelerated mice alveolar epithelial cells

Uriel Camacho-Silverio. Facultad de Ciencias. Universidad Nacional Autónoma de México

M11

Involvement of Fusobacterium nucleatum in colorectal carcinoma: a meta-analysis

Vania Lisset Castillo García. Facultad de Medicina. Benemérita Universidad Autónoma de Puebla

M12

MicroRNAs contained in extracellular vesicles as high sensitivity and specificity biomarkers for hepatocellular carcinoma diagnostic

Luis Alberto Castro Sánchez. Centro Universitario de Investigaciones Biomédicas. Universidad de Colima

M13

Identification of genetic variants of the FTO gene and their association with markers of obesity in the Mexican population.

Alonso Chama Avilés. Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro

M14

Identification of gene expression signatures associated with cisplatin intrinsic resistance in lung adenocarcinoma cell lines

Rodolfo Luis Chavez Dominguez. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

M15

Changes in mitochondrial dynamics and its modulation by an adenosine derivative in the remodeling stage in a model of myocardial infarction.

Enrique Chávez Jiménez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

M16

Detection and validation of response biomarkers in patients with locally advanced sarcomas: clinical and molecular analysis

Ximena Irán Cortés Fernández. Instituto Nacional de Cancerología

M17

Effect of the consumption of ramón flour on high-fat diet-induced obesity model

Trinidad Eugenia Cu Cañetas. Escuela de Salud. Universidad Modelo

M18

Lack of prolactin receptors leads to precocious intestinal maturation in lactating mice

José Luis Dena Beltrán. Instituto de Neurobiología. Universidad Nacional Autónoma de México

M19

OH-ATRAZINE induce expression syncitin and beta-hCG on the human trophoblast

Pablo Enrique Domínguez López. UIMMR Hospital de Ginecología y Obstetricia No. 4 "Dr. Luis Castelazo Ayala". IMSS

M20

Impact of miR-155-5p on the fibrotic phenotype of lung fibroblasts in hypersensitivity pneumonitis

Marco Antonio Espina Ordoñez. Facultad de Medicina. Universidad Nacional Autónoma de México

M21

Curcuminoid effects on a model of fatty liver in rats

María Teresa Espinosa García. Facultad de Medicina. Universidad Nacional Autónoma de México

M22

Clinical relevance of the HSP90AA1 and HSP90AB1 expression profile in patients with locally advanced soft tissue sarcoma of the extremities

Angélica Fitta Valdés. Instituto Nacional de Cancerología

M23

Efficacy of a high-protein diet to lower glycemic levels in type 2 diabetes mellitus: a systematic review

María Nelly Flores Hernández. FES Zaragoza. Universidad Nacional Autónoma de México

M24

A vegetal protein and fiber rich nutraceutical ameliorates features of Heart Failure with preserved Ejection Fraction in a mouse model

Jorge Alberto Fragoso-Medina. The Institute for Obesity Research. Tecnológico de Monterrey

M25

Impact of Resistin on migration and invasion phenomena in PC3 prostate cancer cells

Jesús Andrés Frayde Gómez. Facultad de Medicina. Universidad Autónoma de Baja California

M26

Involvement of the eIF4E factor in the mechanism of Doxorubicin resistance in triple-negative breast cancer model

Héctor Frayde Gómez. Facultad de Medicina. Universidad Autónoma de Baja California

M27

Effect of Endocrine Disrupting Compounds in neurons associated to Autism Spectrum Disorder

Gabriela García Cerón. Facultad de Química. Universidad Nacional Autónoma de México

M28

Effect of the coadministration of resveratrol and vitamin C on oxidative status in postmenopausal women with insulin resistance. Randomized clinical trial.

Aline Yunuen García Cortés. Instituto Nacional de Perinatología Isidro Espinosa de los Reyes

M29

The natural compound α -mangostin inhibits cervical tumor growth

Janice García Quiroz. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

M30

Abnormal mitochondrial calcium content in angiotensin-induced hypertrophy is ameliorated by cannabidiol mimicking PPAR-g activation

Gerardo García-Rivas. Cardiovascular Medicine. Tecnológico de Monterrey

M31

Antitumor effect of a lipid-rich extract from native Mexican avocado seed (Persea americana var. drymifolia) in an in vivo model of murine melanoma

Diana Gabriela Garnica Vélazquez. Facultad de Medicina Veterinaria y Zootecnia. Universidad Michoacana de San Nicolás de Hidalgo

M32

Asociación de SNP de genes reloj con marcadores clínicos de alteraciones metabólicas

María Fernanda Garrido León. Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro

M33

Search and investigation of associated bacteria in bronchial lavages in Covid patients at The General Hospital "Dr. Miguel Silva.

Mario Javier Gutiérrez Fernández. Universidad Tecnológica de Morelia

M34

Evaluation of the Toll like receptor 2 concentration in the saliva of patients with periodontal disease

Rebeca Guzmán Medrano. Facultad de Odontología. Universidad Autónoma de Chihuahua

M35

Generation of a cellular model to study the capacity of Oleaceae pollen proteins to produce an allergic reaction in vitro

Israel Hernández Aguilar. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

M36

Pharmacokinetics of factor VIII in Mexican patients with hemophilia A

Jesús Hernández Juárez. Facultad de Odontología. Universidad Autónoma Benito Juárez de Oaxaca

M37

FoxO3a in Hypersensitivity Pneumonitis Fibroblasts

Iliana Herrera Fuentes. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

M38

Drug discovery in cancer research: what are we looking for?

Nadia Judith Jacobo Herrera. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

M39

Analysis of effect the bioactive compounds present in foods recommended and non-recommended present in the diet of Mexicans and their relationship with SNPs associated atherosclerosis"

Debora Jimenez Diaz. Facultad de Nutrición. Universidad Autónoma del Estado de Morelos

M40

Screening of Agave plants as alternative of α -glucosidase inhibitors source

Elia Donajá Juárez Niño. CIIDIR. Unidad Oaxaca. Instituto Politécnico Nacional

M41

Potential effect of brassinosteroids analogs for the prevention of keloid scarring

Marisol Lazcano Rendon. Facultad de Medicina. Benemérita Universidad Autónoma de Puebla

M42

Analysis of the antioxidant effect of ergothioneine in the pathogenesis of Vascular Dementia"

Lizet Guadalupe Leyva García. Facultad de Nutrición. Universidad Autónoma del Estado de Morelos

M43

Exercise, metformin, and tBHQ counteract high-fat diet-induced damage in liver mitochondria of middle-age female Wistar rats.

Stefanie Paola López Cervantes. Departamento de Ciencias de la Salud. Universidad Autónoma Metropolitana

M44

Gene expression of ABCG2, SLC22A12, IL-1 β , and ALPK1 in peripheral blood leukocytes of primary gout patients were correlated with their comorbidities

Ambar Lopez Macay. División de Neurociencias. Instituto Nacional de Rehabilitación

M45

Clinical-epidemiological profile of a cohort of patients hospitalized with COVID-19 and analysis of polymorphisms in the NOS2 gene (rs2297518, rs2779248 and rs10459953)

Miguel Ángel López Martínez. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

MICROBIOLOGY & VIROLOGY II**MV43**

Development of an indirect ELISA with recombinant porcine epidemic diarrhea virus proteins to carry out a seroprevalence study of the virus in pig farms in Mexico.

Eduardo García González. Tecnológico Nacional de México en Celaya

MV44

Production of an antigenic fragment derived from the S protein of the porcine epidemic diarrhea virus, in a Pichia pastoris expression system.

Eduardo García González. Tecnológico Nacional de México en Celaya

MV45

Regulation of virulence factors by quorum sensing in strains belonging to phylogroups 3 and 5 of Pseudomonas aeruginosa

Selene García-Reyes. Institute of Structural Biology. University Grenoble Alpes

MV46

Participation of the microtubular and actin cytoskeleton in the cellular organization during the development of the entomopathogenic fungus Metarhizium brunneum

Abraham A Gasca-Venegas. Departamento de Microbiología. Centro de Investigación Científica y de Educación Superior de Ensenada

MV47

Analysis of antimicrobial resistance genes and MLST population structure of Salmonella enterica strains isolated in Mexico from 2000-2020

Adrián Gómez Baltazar. Facultad de Química. Universidad Autónoma de Querétaro

MV48

Identification of Chlamydia trachomatis genotypes in newborns with respiratory distress

Melissa Daniella Gonzalez Fernandez. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

MV49

Evaluación in silico and in vitro of 4-formyl pyrazole derivatives on the enzyme 3-hydroxy-3methyl glutaryl coenzyme A reductase from Candida glabrata (HMGRGg)

Adilene González Silva. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

MV50

Study of exploitation of exoproteases and population collapses in clinical strains of Pseudomonas aeruginosa

Katya Dafne Guadarrama Orozco. Facultad de Medicina. Universidad Nacional Autónoma de México

MV51

Proteolytic activity of proteins secreted by Ornithobacterium rhinotracheale

Maribel Guerrero-Rangel. FES Iztacala. Universidad Nacional Autónoma de México

MV52

ERIC-PCR typing of clinical strains of sepsis-associated Escherichia coli

Dafne Guillén-Navarro. Hospital Infantil de México "Federico Gómez"

MV53

Characterization of Thioredoxin/Thioredoxin Reductase system of Candida glabrata

Ma. Guadalupe Gutiérrez Escobedo. Instituto Potosino de Investigación Científica y Tecnológica A.C.

MV54

Trichoderma and Plant Growth-Promoting Bacteria, searching for a synergistic interaction with plants

Paulina Guzmán Guzmán. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV55

Regulation of glycogen synthesis and degradation by quorum sensing in Pseudomonas aeruginosa

Mariel Hernández Garnica. Facultad de Medicina. Universidad Nacional Autónoma de México

MV56

Degradation of chlorpyrifos and lambda cyalothrin by rhizospheric fungi of Typha domingensis plants from Turbio river

Daniella María Joselyn Hernández Pérez. Unidad Profesional Interdisciplinaria de Ingeniería. Instituto Politécnico Nacional

MV57

Participation of the ORFS PA2305 and PA3327 in the virulence of Pseudomonas aeruginosa PAO1

Ximena Hernández Ramos. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV58

Role of the prophage of the Pseudomonas aeruginosa strain ID4365 in population collapses due to the exploitation of exoproteases from its host

Daniel Huelgas Méndez. Facultad de Medicina. Universidad Nacional Autónoma de México

MV59

The plant beneficial rhizobacterium Achromobacter sp. 5B1 influences root development through auxin signaling and redistribution

Kirán Rubí Jiménez Vázquez. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV60

Functional and structural studies of two modular antimicrobial endolysins: insights into the potential application in controlling vibriosis in shrimp farms

Oscar Linares-Vergara. Laboratorio de Biología Sintética, Estructural y Molecular. Universidad de Colima

MV61

Seroprevalence of neutralizing antibodies against human and simian adenovirus types, including those used in COVID-19 vaccines, in healthy adults in Mexico.

Raul Eduardo López Antonio. Instituto de Investigación en Ciencias Básicas y Aplicadas. Universidad Autónoma del Estado de Morelos

MV62

Metabolic capacity from Rahnella sp. to degrade xylan, a dominant gut symbiont of Dendroctonus species

Flor Nohemí Rivera Orduña. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

MV63

Screening of phosphate solubilization identifies six Pseudomonas species with contrasting phytostimulation properties in Arabidopsis seedlings

José López Hernández. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV64

Phenotypic and genotypic analysis of sequential clinical isolates from Candida glabrata

Ana Lizbeth López Marmolejo. Instituto Potosino de Investigación Científica y Tecnológica A.C.

MV65

Wolbachia pipientis modifies protein expression in *Aedes aegypti* cells to diminish the susceptibility to dengue virus.

Teresa López Ordóñez. Centro Regional de Investigación en Salud Pública. Instituto Nacional de Salud Pública

MV66

Humoral immune response surveillance in a vaccinated student population through SARS-CoV-2 Mpro and N proteins

Mónica Gisel López Quiñonez. Universidad Autónoma de Chihuahua

MV67

In-silico analysis of mutations that allow transmission of avian influenza A viruses to humans in Mexico

Melissa Mariana López-Ramos. Facultad de Medicina. Benemérita Universidad Autónoma de Puebla

MV68

*Structure and diversity of bacteria and phages communities in the rhizosphere of common bean (*Phaseolus vulgaris*)*

Griselda López Romo. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

MV69

The IRF3 and IFI16 components of innate immunity are inhibited in adenovirus-infected cells through their relocalization to viral replication compartments

Regina Malpica. Centro de Investigación en Dinámica Celular. Universidad Autónoma del Estado de Morelos

MV70

*Hierarchical protein secretion through the injectisome of enteropathogenic *E. coli**

Arely Marcos-Vilchis. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

MV71

The Human Adenovirus 36 E4Orf1 protein is sufficient but is not required to induce adipogenesis in infected cells.

Verónica Márquez. Centro de Investigación en Dinámica Celular. Universidad Autónoma del Estado de Morelos

MV72

A novel correlative confocal fluorescence and transmission electron microscopy method to characterize extracellular vesicles

Juan Manuel Martínez-Andrade. Centro de Investigación Científica y de Educación Superior de Ensenada

MV73

Cytotoxic activity of isolated bacteria from a Mayan sinkhole located in Sisal, Yucatan

Nahuel Matias Ko. Unidad de Química en Sisal, Yucatán. Universidad Nacional Autónoma de México

MV74

Expression of histone modifying enzymes of Phytophthora capsici during plant-pathogen interaction

Mónica Berenice Rodríguez Rendón. Escuela Nacional de Estudios Superiores León. Universidad Nacional Autónoma de México

MV75

Mannheimia haemolytica OmpH functions as an adhesin

J. Fernando Montes-García. FES Iztacala. Universidad Nacional Autónoma de México

MV76

On the role of the ATPase protein complex in the injectisome of enteropathogenic Escherichia coli

Amin Mora. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

MV77

Identification and characterization of biocontrol agents from amphibians skin against Botrytis cinerea

Yordan J. Romero-Contreras. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

MV78

Implementation and improvement of the CRISPR Cas 12a detection system for SARS-Cov-2 detection

Melissa Daniela Morales Moreno. Instituto de Química. Universidad Nacional Autónoma de México

MV79

From Cap to Collar-How the Endocytic Collar is originated in Neurospora crassa

Rosa R. Mouriño-Pérez. Departamento de Microbiología. Centro de Investigación Científica y de Educación Superior de Ensenada

MV80

The E1B-55KDa oncoprotein regulates adenoviral gene transcription.

Eduardo Mundo Nájera. Centro de Investigación en Dinámica Celular. Universidad Autónoma del Estado de Morelos

MV81

Proteomic analysis reveals the global regulatory effect of the BarA/SirA and CsrB/C systems of Salmonella Typhimurium in conditions relevant for virulence

Jessica Nava Galeana. Instituto de Biotecnología. Universidad Nacional Autónoma de México

MV82

Pigment-producing bacteria isolated from mangroves located in Sisal, Yucatan

Fatima Navarro Cetina. Unidad de Química en Sisal, Yucatán. Universidad Nacional Autónoma de México



POSTERS SESSION III
WEDNESDAY, OCTOBER 19

BASIC BIOCHEMISTRY III

BB61

Toxicity, identification and visualization of aluminium in plant cells using different advanced microscopy techniques

Ángela Ku González. Centro de Investigación Científica de Yucatán A.C.

BB62

Cellular distribution of alkaloids in Argemone mexicana L.

José Ignacio Laines-Hidalgo. Centro de Investigación Científica de Yucatán A.C.

BB63

Production of a novel bioactive polyketide of marine origin using the metabolic chassis of Escherichia coli

Susana San Juan López-Gutiérrez. LaBioSEM. Universidad de Colima

BB64

The copper transport mediated by the P-type ATPase ctpA is required for enzymes involved in the response to oxidative stress in Mycobacterium tuberculosis

Marcela López Ruíz. Facultad de Ciencias. Universidad Nacional de Colombia

BB65

Inhibition of lecithin-dependent hemolysin of Vibrio parahaemolyticus by metal ions and chemical reagents

Alonso Alexis López-Zavala. Departamento de Ciencias Químico Biológicas. Universidad de Sonora

BB66

Changes in mitochondrial metabolism in metabolically activated macrophages.

Luis Alberto Luévano Martínez. The Institute for Obesity Research. Tecnológico de Monterrey

BB67

VSAK, a peptide derived from the C-terminal region of CETPI, modulates in vivo the systemic response to LPS: Proof-of-Concept employing PET

Ismael Luna-Reyes. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB68

Cholesterol dependence of acetylcholinesterase enzyme activity of erythrocytes in normal and hyperglycemic samples

Hassler Stefan Macias Sánchez. Escuela de Ciencias. Universidad de las Américas Puebla

BB69

A computational-experimental approach for the targeted development of fluorogenic substrates and competitive inhibitors of MtMarP protease

Pablo A. Madero-Ayala. Facultad de Ciencias Químicas e Ingenierías. Universidad Autónoma de Baja California

BB70

Agave fructans metabolic profiles in plants of Agave angustifolia Haw. under two different crop management strategies

Ruth Esperanza Márquez-López. Centro Interdisciplinario de Investigación para el Desarrollo Integral Regional. Unidad Oaxaca. Instituto Politécnico Nacional

BB71

Degradation of diesel and gasoline by ligninolytic fungus isolated from contaminated soil

José Antonio Martínez Villalba. Departamento de Bioquímica. Universidad Iberoamericana Torreón

BB72

Effect of chemical inhibitors on the recombinant G6PD::6PGL fused protein of the parasite Trichomonas vaginalis

Víctor Martínez-Rosas. Instituto Nacional de Pediatría. Instituto Politécnico Nacional

BB73

Spectroscopic analysis of metal ions effect on the aggregation of a 6aJL2R24G protein variant.

María Fernanda Mata Salgado. IICBA. Universidad Autónoma del Estado de Morelos

BB74

Complementary mechanisms that counteract deficiencies in Ca²⁺ transport mediated by P-type ATPases in Mycobacterium tuberculosis

Milena Maya Hoyos. Facultad de Ciencias. Universidad Nacional de Colombia

BB75

Analysis of the expression of the transcription factor WRINKLED 1 in coconut zygotic embryos at three developmental stages

Damian Alberto Mayo Ruiz. Centro de Investigación Científica de Yucatán A.C.

BB76

A new perspective of protein evolution mechanisms by natural selection and gene drift.

Adriana Julián-Sánchez. Facultad de Medicina. Universidad Nacional Autónoma de México

BB77

Development of a novel virus-like particle (VLP) platform for the display of the SARS-CoV-2 RBD to induce specific immune responses

Angel Homero Miranda Moreno. Instituto de Ciencias Biomédicas. Universidad Autónoma de Ciudad Juárez

BB78

Effect on stability and kinetics of β -hairpin in T. thermophilus HB27 laccase

Beatriz Miranda-Zaragoza. Instituto de Biotecnología. Universidad Nacional Autónoma de México

BB79

The plant mitochondrial homologous recombination

Josué Daniel Mora Garduño. Langebio. Cinvestav

BB80

Biochemical characterization of the bifunctional enzyme G6PD::6PGL of the parasite Giardia lamblia

Laura Eloísa Morales Luna. Posgrado en Ciencias Biológicas. Universidad Nacional Autónoma de México

BB81

Zika virus hijacks dynein for its replication cycle

Edgar Morales Ríos. Departamento de Bioquímica. Cinvestav Zacatenco

BB82

Betaine aldehyde dehydrogenase activity and biomass evaluation in various genotypes of wheat (Triticum aestivum) under heat stress

Grelida Arellano Morán Yañez. Centro de Investigación en Alimentación y Desarrollo, A.C.

BB83

Finding the SLC16A11 substrate by structural modeling

Nicole Justine Moreno Licona. Cinvestav Zacatenco

BB84

Residues in randomized positions contribute to the biochemical properties of designed ankyrin proteins

Diego Nájera Benavides. Instituto Nacional de Pediatría. Universidad Nacional Autónoma de México

BB85

Identification of antimicrobial peptides from scorpion venom of a new species of the genus Mesomexovis

Juana María Jiménez-Vargas. Facultad de Ciencias Químicas. Universidad de Colima

BB86

MAPK and PKA signaling pathways modulate the steroidogenesis in JEG3 cells

Sofía Olvera Sánchez. Facultad de Medicina. Universidad Nacional Autónoma de México

BB87

Molecular dissection of the EscO protein from the injectisome of enteropathogenic Escherichia coli

Octavio Augusto Ontiveros Vivanco. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BB88

Hyperglycemia affects rat sperm hyperactivation and membrane potential

Hiram Pacheco Castillo. Instituto de Biotecnología. Universidad Nacional Autónoma de México

BB89

Characterization of changes in the structural conformation of LEA proteins in different environmental settings and their possible relationship to their protective function

Laura Daniela Palomino Navarrete. Facultad de Química. Universidad Nacional Autónoma de México

BB90

Physiological and Biochemical Effects of Heat Stress on Bread Wheat Plants

Sergio Gerardo Hernández León. Centro de Investigación en Alimentación y Desarrollo, A.C.

GENETICS, EPIGENETICS & GENETIC REGULATION III

G53

MT1-MMP effects on breast cancer cells transcriptome

Floria Lizárraga Sánchez. Instituto Nacional de Medicina Genómica

G54

Integrative analysis of LINCOO52 roles in breast cancer cells

Floria Lizárraga Sánchez. Instituto Nacional de Medicina Genómica

G55

Analysis of the Differential Association Between Argonaute Proteins and Small RNAs in the Regulation of Legume-Rhizobia Symbiosis.

Sarah Melissa Lugo Caro del Castillo. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G56

Contribution of microRNAs contained in hepatic tumor cells-derived extracellular vesicles in the expression regulation of calcium dynamics elements in hepatocarcinoma cells

Jesús Monroy Rodríguez. Centro Universitario de Investigaciones Biomédicas. Universidad de Colima

G57

Characterization of a long non-coding RNA with an ethylene regulatory perception role in Arabidopsis thaliana.

Jesús Nieto Hernández. Facultad de Ciencias Químicas. Universidad Autónoma de San Luis Potosí

G58

Analysis of gene expresion at different stages of chloroplast development of Agave angustifolia Haw

Luis Fernando Núñez-Becerril. Centro de Investigación Científica de Yucatán A.C.

G59

Co-expression network of lncRNAs/mRNAs in three-dimensional microenvironment exacerbate essentials hallmarks related to luminal B breast cancer subtype.

Stephanie I. Nuñez-Olvera. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

G60

Mutation of MEDIATOR16 promotes plant biomass accumulation and root growth by modulating auxin signaling

Pedro Iván Huerta Venegas. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

G61

Downregulation of Catsper1 expression by calmodulin inhibitor (calmidazolium); possible implications for fertilization.

Norma Angélica Oviedo de Anda. Hospital de Infectología. Centro Médico Nacional La Raza. IMSS

G62

High-throughput small RNA-seq analysis in the Arabidopsis thaliana mutant eca2 in response to the fungal pathogen Botrytis cinerea

Emir Alejandro Padilla Padilla. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G63

Early genetic signatures associated with intrinsic resistance in lung adenocarcinoma cells persistent to TKI treatment

Mario Perez-Medina. ENCB. IPN. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

G64

Transcriptomic portrait of epigenes in human gliomas

Sofía Plata Burgos. Unidad Cuajimalpa. Universidad Autónoma Metropolitana

G65

Downregulation of common bean phospholipase PvPLD α 2 alters nodule development during rhizobial symbiosis

Carmen Quinto. Instituto de Biotecnología. Universidad Nacional Autónoma de México

G66

Single-cell analysis of the Ca²⁺ signaling genes in breast cancer

Andrés Hernández-Oliveras. Facultad de Medicina. Universidad Nacional Autónoma de México

G67

Expression regulation of the gene encoding the progesterone receptor in immortalized human endometrial stromal cells

Retis-Resendiz Alejandra Monserrat. Facultad de Química. UNAM. Instituto Nacional de Perinatología
Isidro Espinosa de los Reyes

G68

Proteomic analysis of the physicochemical properties of Debaryomyces hansenii proteins: A result of the alternative CUG codon usage.

Anya Miranda Reyes Torres. Facultad de Ciencias. Universidad Nacional Autónoma de México

G69

Role of Maf1 in global transcriptional regulation in the protozoan parasite Leishmania major

Luis Alberto Rivera Rivas. FES Iztacala. Universidad Nacional Autónoma de México

G70

Identification of transcription factors associated with lycopene cyclase genes in Bixa orellana L.

Julia Gabriela Rivero Manzanilla. Centro de Investigación Científica de Yucatán A.C.

G71

Flowering transition when and where? Regulation of XAANTAL1

Mónica Rodríguez Bolaños. Instituto de Ecología. Universidad Nacional Autónoma de México

G72

Functional analysis of the microRNA miRNov223 and its putative target LBD-Phvul.002G012200.1 in the Phaseolus vulgaris model during symbiosis with Rhizobium etli

Javier Rodríguez Hernández. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

G73

A long non-coding RNA as a novel regulator of ABA signaling in Arabidopsis thaliana

Dhamar Gabriela Rodríguez Tenorio. Universidad Autónoma de San Luis Potosí

G74

A novel YY1 binding region in claudin 6 DNA promoter is required for the appropriate assemble of the CREB-YY1 complex.

Jorge Hiram Romero Estrada. Facultad de Medicina. Universidad Nacional Autónoma de México

G75

Regulation of the SLM35 gene under stress conditions in Saccharomyces cerevisiae

Hernán Romo Casanueva. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

G76

Neutral lipids of the antarctic yeast Rhodotorula mucilaginosa: Transcriptional regulation of the ATP citrate-lyase gene under nitrogen limitation

Miguel Ángel Rosas Paz. Facultad de Ciencias. Universidad Nacional Autónoma de México

G77

The RNA-directed DNA methylation machinery is required in Arabidopsis to modulate the expression of NSP4 gene mediated by Trichoderma

Maria Montserrat Rosendo Vargas. Instituto Potosino de Investigación Científica y Tecnológica A.C.

MEDICINE, HEALTH & NUTRITION II**M46**

Effect of BoNT/A in the murine model of triple-negative breast cancer as a possible antitumor treatment involving the SV2A receptor

Evoli Noemi López Morán. Ciencias Químicas. Benemérita Universidad Autónoma de Puebla

M47

Mitochondrial dynamics characterization in PMBC from a PAH cohort

Silvia Araceli López Morán. Centro de Investigación Biomédica. Tecnológico de Monterrey

M48

The role of Hypoxia Inducible Factor 3- α in colon cancer

Alejandro Lopez Mejia. Facultad de Medicina. Universidad Nacional Autónoma de México

M49

Effect of IFC-305 on mitochondrial function in an experimental model of bleomycin-induced pulmonary fibrosis

Erika Rubí Luis García. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

M50

Detection and validation of molecular markers related to the two-way relationship between Renal Cell Carcinoma and Chronic Kidney Disease

Arijahir Alexis Mancio Cárdenas. Instituto Nacional de Cancerología

M51

Effect of acute consumption of piperine and cocoa on biochemical parameters and oxidative damage.

Sandra Gabriela May Pérez. División Académica de Ciencias Básicas. Universidad Juárez Autónoma de Tabasco

M52

Distinctive phenotypic and transcriptomic signatures between heart failure with preserved ejection fraction (HFpEF) and heart failure with reduced ejection fraction (HFrEF)

Abraham Méndez Fernández. Escuela de Medicina y Ciencias de la Salud. Tecnológico de Monterrey

M53

Determination and analysis of the crystallography structure of recombinant sigma glutathione transferase from Taenia Solium

Ricardo Miranda Blancas. Facultad de Medicina. Universidad Nacional Autónoma de México

M54

An alternative method for the characterization of respiratory allergy-causing pollen allergens

Josaphat Miguel Montero Vargas. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

M55

Vasculogenic mimicry in triple-negative breast cancer cells is inhibited by calcitriol and curcumin by blocking the PI3K/AKT pathway

Gabriela Morales-Guadarrama. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

M56

Preeclampsia decreases insulin-induced vasoconstriction and vasodilation in rat aorta

Julio C Munguía Venegas. Escuela Superior de Medicina. Instituto Politécnico Nacional

M57

Tamoxifen metabolite treatment promotes the transition of MCF-7 estrogen receptor-positive breast cancer cells to triple-negative phenotype

Andrea Muñoz Ayala. Facultad de Medicina. Universidad Autónoma de Baja California

M58

Skeletal muscle mitochondria alterations in the development of heart failure with preserved ejection fraction

Bianca Nieblas. Escuela de Medicina y Ciencias de la Salud. Tecnológico de Monterrey

M59

Evaluation of the RT-LAMP test for COVID19 in saliva and nasal samples

Manuel Nolasco Quiroga. Clínica Hospital ISSTE Huauchinango. UAMRA-UAT

M60

Evaluation of single nucleotide polymorphisms associated with the development of vascular dementia in the cellular context of the neurovascular unit

Armando Ocampo del Valle. Facultad de Nutrición. Universidad Autónoma del Estado de Morelos

M61

(-)-Epicatechin modulates the expression of myomiRs implicated in exercise response in mouse skeletal muscle

Carlos Palma Flores. Escuela Superior de Medicina. Instituto Politécnico Nacional

M62

SNP-food search: A tool for searching bioactive compounds related to single nucleotide polymorphisms

Natalia Paz de Sayve. Facultad de Nutrición. Universidad Autónoma del Estado de Morelos

M63

Detection of NTRK rearrangements by a PCR-based assay for oncology molecular diagnostics.

Cynthia Peñaloza Coronas. Laboratorio de Patología Quirúrgica y Citología de Puebla

M64

Genomic profiling of a consortium of tumor samples of different origins from Mexican population using NGS.

Cynthia Peñaloza Coronas. Laboratorio de Patología Quirúrgica y Citología de Puebla

M65

Liver disease associated with cardiac dysfunction in a mouse model of preserved ejection fraction.

Rebeca Pérez Cabeza de Vaca. Hospital Zambrano Hellion. Tecnológico de Monterrey

M66

Effect of epigenetic drugs valproic acid and hydralazine in metastasis development in NIH 3T3 cells transfected with Ha-ras^{val12} Gene.

Enrique Pérez Cárdenas. Instituto Nacional de Cancerología

M67

Pregnancy and GDM effect on vascular GLUT 4 density

Eduardo I Perez Muñoz. Escuela Superior de Medicina. Instituto Politécnico Nacional

M68

Gastroprotective activity of Callistemon citrinus extract in an induction model of gastric ulcers in obese rats

Jonathan Saúl Piñón-Simental. Universidad Michoacana de San Nicolás de Hidalgo

M69

Novel Ligustrum lucidum pollen proteins causing respiratory allergies in polysensitive patients

Raúl Porras Gutiérrez de Velasco. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

M70

Immunohistochemical characterization of three-dimensional cell culture model from Renal Cell Carcinoma.

Javier Rodrigo Prado Baeza. Instituto Nacional de Cancerología

M71

Interaction of natural molecules in an endoxifen and 4-OH-tamoxifen resistance ER+ breast cancer model.

Angel Armando Pulido Capiz. Facultad de Medicina. Universidad Autónoma de Baja California

M72

Determination of Cardiometabolic Risk in Medical Students

Gladys Aurora Pulido Garcia. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

M73

Cardiometabolic risk assess by anthropometric measurements

Luz María Quirino Vela. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

M74

Mesenchymal stem cells-TRAIL as a strategy in colorectal cancer

Adriana Guadalupe Quiroz Reyes. Facultad de Medicina. Universidad Autónoma de Nuevo León

M75

Bacterial Cyclodipeptides Impacted the Mevalonate and Cholesterol Pathways in HeLa Cells of Human Cervix Adenocarcinoma

Nancy Araceli Ramirez Gallardo. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

M76

IL-17/hBD-2 concentrations in total saliva in periodontitis and Rheumatoid Arthritis

Saira Karina Ramirez Thome. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

M77

Benzimidazole derivatives as inhibitors of shikimate kinase from methicillin-resistant Staphylococcus aureus.

Lluvia Iveth Rios Soto. Facultad de Medicina y Nutrición. Universidad Juárez del Estado de Durango

M78

Role of TLR2, TLR4 and TLR9 receptors in platelet aggregation in type 2 diabetes

Cherry Guadalupe Rodriguez Gongora. Centro de Investigaciones Regionales Dr. Hideyo Noguchi. Universidad Autónoma de Yucatán

M79

KCNJ11 and ABCC8 polymorphisms associated to sulfonylurea secondary failure in Type 2 Diabetes Mellitus

Nidia Samara Rodríguez Rivera. Facultad de Medicina. Universidad Nacional Autónoma de México

M80

Coculture of neurons and Schwann cells derived from mesenchymal stem cells of human adipose tissue, as potencial cell therapy for demyelinating diseases.

Juan Antonio Rojas Murillo. Facultad de Medicina. Universidad Autónoma de Nuevo León

M81

Impact of bioactive compounds present in foods available in Mexico on oxidative stress metabolism and Alzheimer's disease genetic variants associated

Lessly Monserrat Sánchez Contla. Facultad de Nutrición. Universidad Autónoma del Estado de Morelos

M82

Finding hits for type 2 diabetes drug design. Characterization of protein tyrosine phosphatase 1B inhibitors.

Ana Karina Segovia Parra. Facultad de Medicina y Nutrición. Universidad Juárez del Estado de Durango

M83

Sucralose increase the macrophage inflammatory response and alters the pattern of adipokines in differentiated adipocytes of the PCS-210-010 cell line

Norma Aurora Stephens Camacho. Departamento de Ciencias Químico-Biológicas y Agropecuarias Universidad de Sonora

M84

Role of CD54 in the metastatic capacity of gastric cancer stem cells

Manuel Tinajero Rodríguez. Subdirección de Investigación Básica. Instituto Nacional de Cancerología

M85

Analysis of LINE-1 retrotransposon as a senescence marker in accelerated aging mice

Tania Valdivia Herrera. Facultad de Ciencias. Universidad Nacional Autónoma de México

M86

Association between the prostate specific antigen and others biochemical parameters in a mexican population sample in Veracruz

Olga Lidia Valenzuela Limón. Facultad de Ciencias Químicas. Universidad Veracruzana

M87

The xanthone α -mangostin synergically enhances tamoxifen antiproliferative activity in estrogen receptor positive breast cancer cells

Rafael Vargas-Castro. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

M88

Experimental Colitis Is Attenuated by Cardioprotective Diet Supplementation That Reduces Oxidative Stress, Inflammation, and Mucosal Damage

Hilda Vargas Robles. Department of Molecular Biomedicine. Cinvestav Zacatenco

M89

Evaluation of two triazaspiranes as inhibitors of migration and invasion in prostate cancer cells PC3"

Javier de Jesús Vasconcelos Ulloa. Instituto de Ingeniería. Universidad Autónoma de Baja California

M90

GC/MS Analysis, Antioxidant Activity, and Antimicrobial Effect of Pelargonium peltatum (Geraniaceae)

Gilberto Velázquez-Juárez. Departamento de Química. Universidad de Guadalajara

M91

Role of Taurine as a preventive component in Vascular Cognitive Impairment

Andrea Villalobos Villaseñor. Facultad de Nutrición. Universidad Autónoma del Estado de Morelos

MICROBIOLOGY & VIROLOGY III**MV83**

In vitro antagonism, effect on tomato plants in greenhouse and functional genomic analysis of the thermotolerant strain Bacillus velezensis AF12

Salvador Chávez Avila. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV84

The stringent response regulates the PHB production in Azotobacter vinelandii

Cristian Camilo Ortiz Vasco. Instituto de Biotecnología. Universidad Nacional Autónoma de México

MV85

Black yeasts from deep-sea sediments of the Gulf of Mexico: cell growth under oligotrophic and hypersaline conditions

Maria Dolores Camacho López. Centro de Investigación Científica y de Educación Superior de Ensenada

MV86

Study of a fungal isolate that uses plastic polymers as carbon source

Martha Lizeth Pérez-Méndez. Departamento de Biología. Universidad de Guanajuato

MV87

Antiviral effect of Chlorella sorokiniana metabolites in vitro

Iveth Melissa Quiroz Félix. Universidad de Sonora

MV88

Electrochemical immunosensor for the detection of antibodies against an epitope of GP5 protein from PRRS virus.

Luis Enrique Franco Correa. Facultad de Medicina Veterinaria y Zootecnia. Universidad Michoacana de San Nicolás de Hidalgo

MV89

Functional characterization of a hybrid protein metabolizing c-di-GMP in Azospirillum baldaniorum Sp245

Alberto Ramírez Mata. Centro de Investigaciones en Ciencias Microbiológicas. Benemérita Universidad Autónoma de Puebla

MV90

Testosterone effect on virulence factors expression of Actinobacillus seminis

Gerardo Antonio Ramírez Paz y Puente. FES Iztacala. Universidad Nacional Autónoma de México

MV91

Fungal Puzzle Piece: Characterization of Cell Wall Protein ACW-1 in Neurospora crassa

Ana Sofía Ramírez Pelayo. Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C.

MV92

Study of prokaryotic diversity and functional markers genes involved in the hydrocarbon degradation and the antibiotic resistance in sediments of the coast of Baja California

Ileana Sarahi Ramos Mendoza. Instituto de Investigaciones Oceanológicas. Universidad Autónoma de Baja California

MV93

Isolation and characterization of bacteriophages with therapeutic potential to combat multidrug-resistant Pseudomonas aeruginosa infections

Xareni Rebollar Juarez. Facultad de Medicina. Universidad Nacional Autónoma de México

MV94

Molecular evolution of the Spike protein of SARS-CoV-2: evidence of adaptation

Georgina I. López Cortés. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

MV95

Exploring the bacterial ability to interact with As(III): an affordable solution for decentralized water treatment systems

Ulises Emiliano Rodríguez Castrejón. Universidad de Guanajuato

MV96

Global transcriptomic response of Escherichia coli to p-coumaric acid

José Ignacio Rodríguez Ochoa. Instituto de Biotecnología. Universidad Nacional Autónoma de México

MV97

T6SS secretion mechanism and novel protein-protein interactions of TecA, a Burkholderia cenocepacia toxin

Julia Monjaras-Feria. Wellcome-Wolfson Institute of Experimental Medicine. Queen's University Belfast

MV98

Regulation of PHB (polyhydroxybutyrate) synthesis by the GacA-RpoS pathway in Azotobacter vinelandii

Juliana Berenice Rojo Rodriguez. Instituto de Biotecnología. Universidad Nacional Autónoma de México

MV99

Action mechanisms of Rouxiella badensis SER3 against postharvest fungal pathogens from a genomic perspective

Luzmaria Raquel Morales Cedeño. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV100

A novel marine Pseudomonas species with antibacterial activity

Luis Emmanuel Romero González. Instituto de Biotecnología. Universidad Nacional Autónoma de México

MV101

A bacterial consortium isolated from a Mayan sinkhole produces metabolites with antibacterial activity

Emilio Rosales Olivares. Unidad de Química en Sisal, Yucatán. Universidad Nacional Autónoma de México

MV102

Participation of proteins AaeSep1 and AaeSep2 in the biogenesis of lipid droplets in mosquito cells infected with dengue virus

Jose Angel Rubio Miranda. Cinvestav Zacatenco. Instituto Politécnico Nacional

MV103

Improving production of the biodegradable plastic polyhydroxybutyrate in Azotobacter vinelandii: The role of the phasins proteins PhbP2 and PhbP3

Jessica Ruiz Escobedo. Instituto de Biotecnología. Universidad Nacional Autónoma de México

MV104

Extracellular vesicles from Neurospora crassa: vehicles for cell wall-related proteins.

Daniel Alfonso Salgado-Bautista. Centro de Investigación Científica y de Educación Superior de Ensenada

MV105

Insights into the mechanism used by a bacterial community to degrade lignocellulose

Mónica Noel Sánchez González. Facultad de Ingeniería Química. Universidad Autónoma de Yucatán

MV106

Proposal of a screening system for Human Papilloma Virus (HPV) in sexually active men in the state of Veracruz

Jesús Ismael Sandoval Díaz. Universidad Juárez Autónoma de Tabasco

MV107

New CtpF-inhibitory compounds and their effect on viability and virulence of Mycobacterium tuberculosis

Paola Santos. Facultad de Ciencias. Universidad Nacional de Colombia

MV108

Cellular components of 53BP1-foci are relocalized to viral replication compartments in adenovirus 5 infected cells

Apolonia Slamet. Universidad Autónoma del Estado de Morelos

MV109

Participation of the ORF PA4078 in the virulence of Pseudomonas aeruginosa PAO1

Carla Isabel Tena Fuentes. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV110

Molecular characterization of the long non-coding RNA of PMeV-Mx, a papaya umbra-like virus, through the development of an infectious clone.

Alethia Fernanda Toriz Bravo. Centro de Investigación Científica de Yucatán A.C.

MV111

Role of Rhizobium O-antigen lipopolysaccharides as receptor for broad-spectrum phage infection and its consequences for symbiosis.

Mary Carmen Torres Quintero. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

MV112

Effect of HMGB1-inhibition on the efficiency of human adenovirus type 5 replication

Yazmin Ugalde Santiago. Universidad Autónoma del Estado de Morelos

MV113

Interplay by Pseudomonas aeruginosa and the Killer toxin produced by Saccharomyces cerevisiae

Jennifer Andrea Uribe López. Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro

MV114

Structurally characteritacion a VacA variant of Helicobacter pylori (HPNUER1)

Norma Urtiz Estrada. Facultad de Ciencias Químicas. Universidad Juárez del Estado de Durango

MV115

Genome mining of Bacillus halotolerans AF23, a thermo- and halotolerant strain with plant growth promoting activities

María Fernanda Valencia Marín. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

MV116

Antimicrobial Capacity of Ethanolic Extracts of Propolis from Southern Sonora

Melissa Valenzuela Rincón. Universidad de Sonora

MV117

A chromosomal locus from Stenotrophomonas maltophilia encoding a T2SS and a T5SSb, is involved in virulence

Julio César Valerdi Negreros. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

MV118

Comparative metagenomics of mycetangia in the Dendroctonus frontalis complex species (Curculionidae: Scolytinae) reveals diverse and functionally redundant fungal assemblages

Karina Vazquez Ortiz. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

MV119

A year-long study of Persea americana (avocado) associated microbiomes to forecast microbial-based diseases

Jorge Verdín. Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C.

MV120

The role of yapsins in the survival and pathogenesis of Candida auris

Alvaro Vidal Montiel. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

MV121

Characterization of porcine reproductive and respiratory syndrome virus-specific neutralizing epitopes in the ectodomain of the structural protein GP5

Alicia Gabriela Zamora Avilés. Facultad de Medicina Veterinaria y Zootecnia. Universidad Michoacana de San Nicolás de Hidalgo

MV122

Evidence of in vitro formation of biomolecular condensates by liquid-liquid phase separation by the adenovirus ssDNA binding protein.

Alejandra Zúñiga-Enríquez. Universidad Autónoma del Estado de Morelos

MV123

Curcumin inhibits the secretion of Type III effectors from Pseudomonas aeruginosa

Miguel Díaz Guerrero. Facultad de Medicina, UNAM

MV124

Characterization of the presence and activity of Efflux Pumps Systems in Pseudomonas aeruginosa multidrug resistance strains and identification of putative inhibitor compounds

Giselle del Carmen Alvarez Cirerol. Facultad de Medicina, UNAM

MV125

Potential of skin bacteria from amphibians as biocontrol agent against Botrytis cinerea

Alejandro Valdivieso Proaño. Centro de Ciencias Genómicas, UNAM

NEUROSCIENCES AND NEUROBIOLOGY**NN1**

Cognitive stimulation reduces activated microglia in mice.

David Francisco Aguilar Ávila. Facultad de Medicina. Universidad Nacional Autónoma de México

NN2

Cognitive evaluation of chronic administration of Galeana (Sphatodea campanulata) in type 2 diabetic rats.

Raziel Alejandro Arias Sánchez. Facultad de Ciencias Médicas y Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

NN3

Sleep restriction promotes the A1 astroglial phenotype and increases blood-brain barrier permeability

Jessica Janeth Avilez Avilez. Área Neurociencias. Universidad Autónoma Metropolitana

NN4

Effect of selective inhibition of nuclear export with Selinexor on autophagy and senescence features in an in vitro neuronal aging model.

Lorelei Ayala-Guerrero. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

NN5

Kinematic representations in the substantia nigra pars reticulata adjust to different spatiotemporal contexts.

Ana Silvia Báez Cordero. Instituto de Neurobiología. Universidad Nacional Autónoma de México

NN6

Boromelatonin ameliorates the cognitive deficit and neuronal loss induced by estrogen deprivation in female rats

Monica Barron Gonzalez. Escuela Superior de Medicina. Instituto Politécnico Nacional

NN7

Tibolone administration decreases oxidative stress in plasma and spinal cord in a traumatic spinal cord injury animal model

Guadalupe Bautista Poblet. Hospital de Especialidades. Centro Medico Nacional "Siglo XXI"

NN8

Axonal degeneration in an in vitro model of neuronal senescence

Gisselle Angelica Campos-Martinez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

NN9

Effect of high-carbohydrate diet consumption on mitochondrial efficiency in the hippocampus and cerebral cortex of Wistar rats.

Karen Carreto Meneses. Facultad de Ciencias Químicas. Benemérita Universidad Autónoma de Puebla

NN10

Prenatal cafeteria diet exposure promotes lymphocyte infiltration into the brain and autism-like behavior in the offspring of C57BL6 mice

José Alfredo Castillo Luna. Facultad de Ciencias Biológicas. Universidad Autónoma de Nuevo León

NN11

Prenatal exposure to high-energy diets affects volume and connectivity in the fimbria-fornix of mice offspring showing anxiety

Gabriela Cruz Carrillo. Facultad de Medicina. Universidad Autónoma de Nuevo León

NN12

Role of NOX in NLRP3 inflammasome regulation during cerebellar granule neurons death.

Karen Stephany Cruz Hernández. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

NN13

Hyperglycemia differentially affects neuronal differentiation and Nestin, FOXO1 and LMO3 mRNA expression of human umbilical cord Wharton's jelly mesenchymal stem cells from normoglycemic and pregestational diabetes mellitus pregnancies.

Mauricio Domínguez Castro. Instituto Nacional de Perinatología Isidro Espinosa de los Reyes

NN14

Evaluation of a boron-containing melatonin analogue in the cognitive deficit induced by androgen deprivation in male rats

Eunice Dalet Farfán García. Escuela Superior de Medicina. Instituto Politécnico Nacional

NN15

Sleep restriction modifies insulin signaling in the hippocampus of male rats

Jesús Enrique García Aviles. Área de Neurociencias. Universidad Autónoma Metropolitana

NN16

Study of the environmental experiences on behavioral sensitization induced by toluene

David García Jácome. Escuela Superior de Medicina. Instituto Politécnico Nacional

NN17

Protein β -Hydroxybutyrylation in neurons and astrocytes and its impact on gene expression through H3K9bhb

Lizbeth E García-Velázquez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

NN18

Avocado oil prevents neurological and oxidative damage in a model of neurodegeneration induced by quinolinic acid

Edith González Guevara. Instituto Nacional de Neurología y Neurocirugía Manuel Velasco Suárez

NN19

Cannabinergic modulation of parkinsonian basal ganglia-cortico-thalamic neural dynamics

Perla González Pereyra. Instituto de Neurobiología. Universidad Nacional Autónoma de México

NN20

*Effect of maqui berry (*Aristotelia chilensis*) extract on memory, oxidative stress and biochemical components associated with metabolic syndrome induced by a high-fat, high-fructose diet*

Christian Guerra Araiza. Centro Médico Nacional "Siglo XXI" IMSS.

NN21

Psacalium decompositum alleviates memory impairments in an Alzheimer's disease mouse model

Martín Hernández Lucas. Departamento de Investigación Básica. Instituto Nacional de Geriatria

NN22

Searching Histamine N methyltransferase inhibitors and their effect on histamine brain levels

Paola Gabriela Hernández Pérez. Escuela Superior de Medicina. Instituto Politécnico Nacional

NN23

Neuron specific enolase as a biomarker of diabetic peripheral neuropathy

Olga Lidia Valenzuela Limón. Faculty of Chemical Sciences. Veracruzana University

NN24

Coadministration of rotenone and manganese to model Parkinson's disease in rats

María Teresa Ibarra Gutiérrez. Instituto Nacional de Neurología y Neurocirugía Manuel Velasco Suárez

NN25

TRPV1 is a noxious sensor regulated by endocannabinoids

Rebeca Juárez-Contreras. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

NN26

Lysosomal alterations during neuronal senescence in an in vitro model

Paulina López-Carrasco. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

NN27

Prolactin prevents oxidative stress-induced cell death in hippocampal neurons

Fernando Macías. Instituto de Neurobiología. Universidad Nacional Autónoma de México

NN28

Histone deacetylase 2 inhibition reverses memory impairment induced by acute stress in mice

Heidy Martínez Pacheco. Instituto de Neurobiología. Universidad Nacional Autónoma de México

NN29

TNF- α receptor antagonism restores pericyte-endothelial cell interactions and improves blood-brain barrier function during sleep restriction

Ma. Fernanda Medina Flores. Universidad Autónoma Metropolitana. Unidad Iztapalapa

NN30

The neuroprotective effect of the endocannabinoid metabolites of cytochrome P450 during the staurosporine-induced neuronal death

Cynthia Navarro Mabarak. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

NN31

Exploring the role of the direct pathway of the basal ganglia in speed control during the execution of motor sequences

Diana Itzel Ortega Romero. Instituto de Neurobiología. Universidad Nacional Autónoma de México

NN32

Encoding visual stimuli by striatal neurons

Job Pérez Becerra. Instituto de Neurobiología. Universidad Nacional Autónoma de México

NN33

Curcumin decreases the protein oxidation in brain of mice fed a hypercaloric diet

Joel Ramírez-Emiliano. Departamento de Ciencias Médicas. Universidad de Guanajuato

NN34

Effect of ketogenic diet on mouse aging

Braulio Ramírez-Ramos. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

NN35

Joint administration of synthetic ligands of TLRs and vincristine in a murine model of medulloblastoma

Guadalupe Rodríguez Santos. Hospital Infantil de México Federico Gómez

NN36

Comparative genomics of TFBSs of LTR transcription factors.

Hazel Roldán Fernández. Escuela Superior de Apan. Universidad Autónoma del Estado de Hidalgo

NN37

Anti-nociceptive effect of N-acetylcysteine in a rat model of traumatic spinal cord injury

Héctor Alonso Romero Sanchez. Universidad Autónoma Metropolitana. Unidad Xochimilco

NN38

Transcriptional profile of cytokines expressed in mast cells stimulated with S100B, a DAMP associated to neuroinflammation in huntington's disease

Gabriela Saavedra Lanuza. Departamento de Farmacobiología. Cinvestav Sede Sur

NN39

Effect of chronic hypercaloric diet feeding on the inflammatory state, and its relation to cognitive impairment in middle-aged female Wistar rats

Verónica Salas Venegas. Departamento de Ciencia Biológicas y de la Salud. Universidad Autónoma Metropolitana

NN40

A method to interrogate and manipulate pyramidal tract cortico-striatal neurons in rats.

Oswaldo Sánchez-Lobato. Instituto de Neurobiología. Universidad Nacional Autónoma de México

NN41

Immunization with peptide A91 induces neurogenesis at the level of medullary horns in moderately injured rats

Samantha Beatriz Sánchez Noriega. Universidad Anáhuac

NN42

Sulforaphane prevents oxidative damage and cognitive decline in middle-age female and male Wistar rats, but cannot revert previous damage in old individuals

Roberto Santín Márquez. División de Ciencias Biológicas y de la Salud. Universidad Autónoma Metropolitana

NN43

Characterization of rotenone-induced mitochondrial and endolysosomal dysfunction in the cell line SH-SY5Y

Ana Paula Tirado Jiménez. Instituto Nacional de Medicina Genómica

NN44

Antineoplastic effect in human glioma of Riftia Pachyptila extracts and Chemical Profile of compounds

Monica Adriana Torres Ramos. Instituto Nacional de Neurología y Neurocirugía Manuel Velasco Suárez

NN45

Prenatal diet programs the transgenerational heritage of brain structure and anxiety-like behavior in the offspring of rats

Luis Ángel Trujillo Villareal. Facultad de Medicina. Universidad Autónoma de Nuevo León

NN46

High levels of circulating Prolactin protect the brain from Diabetes-induced oxidative stress damage

Miriam Nayely Ulloa Zamudio. Instituto de Neurobiología. Universidad Nacional Autónoma de México

SIGNAL TRANSDUCTION AND CELL DIFFERENTIATION I**ST1**

Role of intracellular phosphoaminoacid mutants from human α 1B-adrenergic receptor.

Rocío Alcántara-Hernández. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ST2

Differential regulation of Hypoxia-Inducible Factors 1/2/3 α over canonical and non-canonical Wnt pathways in colorectal cancer cells

Eduardo Alvarado-Ortiz. Facultad de Medicina. Universidad Nacional Autónoma de México

ST3

Effect of high-glucose in Cx30.2 expression in pancreatic β cells.

Lorelei Larissa Angeles Aguilar. Facultad de Medicina. Universidad Nacional Autónoma de México

ST4

Effect of the nitrogen source in the induction of somatic embryogenesis of Coffea canephora Pierre ex A. Froehner

Centeotl Aragón Rodríguez. Unidad de Bioquímica y Biología Molecular de Plantas. Centro de Investigación Científica de Yucatán A.C.

ST5

The effect of Isoarborinol in adipogenic markers in 3T3-L1 cells

Yesenia Arcos Reyes. Escuela Nacional de Medicina y Homeopatía. Instituto Politécnico Nacional

ST6

PAK 1 Promotes Breast Tumorigenesis Via Phosphorylation and Activation of the Calcium/Calmodulin-Dependent Protein Kinase II

Luis E. Arias Romero. FES Iztacala. Universidad Nacional Autónoma de México

ST7

Modulation of Bone Cell Activity and Bone Remodeling by Sulfated Polysaccharides Derived from Brown Algae

Jessica Sharlin Landeros Juárez. Centro de Investigación Científica y de Educación Superior de Ensenada

ST8

p32 Promotes a Malignant Phenotype in Colorectal Cancer Cells

María Cristina Castañeda Patlán. Facultad de Medicina. Universidad Nacional Autónoma de México

ST9

Characterization of the function of the PcSNT protein and its role in the cell signaling pathway mediated by heterotrimeric G proteins in Penicillium chrysogenum

Maria Fernanda Cerón Moreno. Universidad Autónoma Metropolitana

ST10

Characterization of TGF-beta-loaded Extracellular Vesicles from Colorectal Cancer Cells

Diana Alondra Coquis Bucio. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ST11

Effect of IL-2 in STAT1 phosphorylation in cervical carcinoma lines.

Erika Anayatzin Covarrubias Negrete. FES Zaragoza. Universidad Nacional Autónoma de México

ST12

Urocortin 2/CRF2R mediates Akt and ERK 1/2 activation in 3T3-L1 Adipocytes

Daphne Esperanza Cruz Villarreal. Departamento de Bioquímica. Cinvestav Zacatenco

ST13

Effect of corticotropin-releasing factor (CRF) on ERK 1/2 activation induced by insulin-like growth factor-1 (IGF-1) in CHO-K1 cells

Carlos De Jesus Quiroz. Departamento de Bioquímica. Cinvestav Zacatenco

ST14

Identification and evaluation of the interaction between biomolecules present at the "Manilkara zapota" seeds versus the of P53, P21, Δ-lactoferrin and β-catenin crystallographic structures

Pablo de J. de la Cruz Jiménez. División Académica de Ciencias Básicas. Universidad Juárez Autónoma de Tabasco

ST15

Effects of CFBF inhibition by CRISPR-Cas in breast cancer

Magali Espinosa Castilla. Instituto Nacional de Medicina Genómica

ST16

Regulation of FFA1 receptor interaction with beta-arrestin 2

Emmanuel Flores Espinoza. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ST17

Role of TOR signaling pathway in the response to heat stress in corn (Zea mays)

Itzel García Bravo. Facultad de Química. Universidad Nacional Autónoma de México

ST18

MEDIATOR18 regulates Arabidopsis root system architecture, auxin signaling and is a critical factor for cell viability in root meristems

Javier Raya González. Facultad de Químico Farmacobiología. Universidad Michoacana de San Nicolás de Hidalgo

ST19

Adenosine Derivative Treatment Induces Transcriptomic Changes of Hepatocellular Carcinoma by regulating Wnt/β-catenin Signaling

Nuria Guerrero Celis. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ST20

Glycine modulation of pro- and anti-inflammatory cytokines and their GPR-6 gene expression in adipogenesis

Rocío Alejandra Gutiérrez Rojas. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

ST21

Effect of the IFC-305 in B-cell Acute Lymphoblastic Leukemia cell lines on the PI3K/Akt/mTOR pathway

Ana María Hernández Jiménez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ST22

Lisophosphatidylinositol (LPI) blocks Toll-like receptor (TLR)4-dependent pro-inflammatory and pro-angiogenic cytokine production in mast cells

Alfredo Ibarra-Sánchez. Departamento de Farmacobiología. Cinvestav Sede Sur

ST23

Sea Snails Conotoxins Modulate Bone Cell Activity

Brenda Ivette Iduarte Frias. Centro de Investigación Científica y de Educación Superior de Ensenada

ST24

Proteomic and molecular study of somatic embryogenesis in Coffea spp.

Ana Odeth Quintana Escobar. Unidad de Bioquímica y Biología Molecular de Plantas. Centro de Investigación Científica de Yucatán A.C. *Use of DINO-SL to improve a cDNA library for Y2HS in*

ST25

Chronic Leptin Treatment Induces Epithelial-Mesenchymal Transition in MCF10A Mammary Epithelial Cells

Juan Carlos Juárez Cruz. Facultad de Ciencias Químico Biológicas. Universidad Autónoma de Guerrero



POSTERS SESSION IV
THURSDAY, OCTOBER 20

BASIC BIOCHEMISTRY IV

BB91

Crosstalk Between O-GlcNAcylation and CD36 in Macrophages

Yobana Perez Cervera. Facultad de Odontología. Universidad Autónoma Benito Juárez de Oaxaca

BB92

Study of the structural sensitivity to the environment of intrinsically disordered regions in Arabidopsis transcription factors

César Antonio Ponce Diego. Facultad de Química. Universidad Autónoma de Chihuahua

BB93

Effect of 8-Benzyl-1,3,8-Triazaspiro-[4.5]-Decane-2,4-Dione on migration and invasion of PC3 prostatic tumoral cells stimulated with LDLs

Georgina Quintana González. Facultad de Medicina Mexicali. Universidad Autónoma de Baja California

BB94

Effect of pH and temperature on the kinetic parameters of thioredoxin-glutathione reductase from Taenia crassiceps

Juan Luis Rendón. Facultad de Medicina. Universidad Nacional Autónoma de México

BB95

The absence of pyruvate carboxylase and phosphoenolpyruvate carboxylase affect nitrogen fixation in Rhizobium phaseoli

Alma Ruth Reyes González. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

BB96

Characterization of the catalytic capacity of CCD-1 y CCD4-3 at the bixin biosynthesis pathway in Bixa orellana L.

Juana Guadalupe Hernández Reséndiz. Centro de Investigación Científica de Yucatán A.C.

BB97

Genetically encoded fluorescent biosensors to study the relocation of proteins in response to hyperosmotic stress

Esaú-E Rodríguez. Facultad de Química. Universidad Nacional Autónoma de México

BB98

Evaluating Calvin cycle efficiency in potential heat tolerant bread wheat genotypes

Andrea Romero-Reyes. Centro de Investigación en Alimentación y Desarrollo, A.C.

BB99

Mathematical modeling of the reactions catalyzed by an uncommon thermophilic cyclomaltodextrin glucanotransferase

José Gabriel Rosales Castañeda. Facultad de Ingeniería Mecánica y Eléctrica. Universidad de Colima

BB100

Application of ZnO nanoparticles in the reduction of Pb accumulation in corn crops (Zea mays)

José Martín Rosas Castor. Facultad de Ciencias Químicas. Universidad Autónoma de Nuevo León

BB101

Determination of the optimal conditions for the activity of betaine aldehyde dehydrogenase against γ -trimethylaminobutyraldehyde

Jesús Alfredo Rosas Rodríguez. Universidad de Sonora. Unidad Regional Sur

BB102

*Phytochemical analysis of compounds of therapeutic interest from the extract of mistletoe *Psittacanthus calyculatus* located in the "Cerro del Palenque" of Purísima del Rincón, Guanajuato and its possible treatment as an antimicrobial agent.*

Daniela Sánchez Guevara. Instituto Tecnológico Superior de Purísima del Rincón

BB103

*Phytochemical characterization, Angiotensin I-converting enzyme inhibitory and antioxidant activity of Mexican *Cordiceps militaris* fruiting body ethanolic extract.*

Erick Sierra Campos. Facultad de Ciencias Químicas. Universidad Juárez del Estado de Durango

BB104

*Analysis of the possible participation of ALDH3H1-1 and SABATH4 genes in bixin biosynthesis in *Bixa orellana* L.*

Diana Laura Sierra Ulín. Centro de Investigación Científica de Yucatán A.C.

BB105

Aldehyde dehydrogenases role in oxidative stress protection in anaerobic microorganisms

Mayel Silva Flores. Departamento de Bioquímica. Instituto Nacional de Cardiología "Ignacio Chávez"

BB106

Analysis of the expression of transcripts encoding oleosins in solid coconut endosperm with different levels of maturity

Blanca Catalina Solís Arias. Centro de Investigación Científica de Yucatán A.C.

BB107

Pregnancy-induced physiological cardiac hypertrophy regulates the expression of perilipin isoforms and PGC-1 α in Sprague-Dawley rats

José Guadalupe Soñanez Organis. Ciencias Químico-Biológicas y Agropecuarias. Universidad de Sonora

BB108

*Analysis of gene expression: *apetala* (AP), *shatterproof* (SHP) and *spatula* (SPT) in the fruit dehiscence zone of *Bixa Orellana* L.*

Rocío Tamayo García. Centro de Investigación Científica de Yucatán A.C.

BB109

Biochemical characterization of EhHAPP49, an amoebic protein of the HAP-phytase class that exhibits pyrophosphatase activity

Celina Terán Ramírez. School of Chemical Sciences and Engineering. Universidad Autónoma de Baja California

BB110

Metal promiscuity of DapE, a target enzyme for bacterial growth

Manuel Terrazas-López. Universidad Autónoma de Ciudad Juárez

BB111

Heterologous expression of a CCD4 from Bixa orellana L in E.coli cells

Diego Torres-Pech. Centro de Investigación Científica de Yucatán A.C.

BB112

Analysis of the respiratory chain of Bacillus licheniformis as a cyanide-resistant microorganism.

Daniel Uribe-Ramírez. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

BB113

Oligomerization of the peptide defensin J1-1_K45E

Angel David Vargas Burgoa. Centro de Investigación Científica de Yucatán A.C.

BB114

Interrelationship between the cell cycle and glycolysis in maize

Teresa Vargas Cortez. Facultad de Química. Universidad Nacional Autónoma de México

BB115

*Effect of β -glucosidase from Chayote (*Sechium edule*) on the release of volatile compounds in the preparation of blonde ale style beer.*

Iliana Vásquez Lara. Unidad de Bioquímica e Inmunología. Instituto Tecnológico de Oaxaca

BB116

Thioredoxin-glutathione reductase from Taenia crassiceps and its ability to generate superoxide anion.

César Vásquez Lima. Facultad de Medicina. Universidad Nacional Autónoma de México

BB117

H⁺-ATPases Pma1 and Pma2 from the corn smut basidiomycete Ustilago maydis: a functional analysis

Melissa Vásquez Carrada. Instituto Politécnico Nacional

BB118

Heterologous expression and functional characterization of an aldehyde dehydrogenase (ALDH) potentially involved in bixin biosynthesis

Gabriela Del Carmen Vásquez Gómez. Centro de Investigación Científica de Yucatán A.C.

BB119

A possible involvement of AGCVIII kinases in the phosphorylation of the Argemone mexicana AmABCB1 alkaloid transporter

Felipe Vásquez-Flota. Centro de Investigación Científica de Yucatán A.C.

BB120

Functional characterization of a three-domain pH-adaptive cyclomalto-dextrin glucanotransferase
Beatriz Velázquez Cruz. Laboratorio de Agrobiotecnología. Universidad de Colima

BB121

Mgr2 modulates the import of yeast cytosol-synthesized subunit II of cytochrome c oxidase (Cox2) when moving through the TIM23 translocon
Felipe Nieto Panqueva. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

BIOTECHNOLOGY II**BT33**

In vitro culture of shoots and calluses of Kalanchoe daigremontiana, as a sustainable source for obtaining metabolites
Gustavo Vicente Leyva Alvarez. Unidad Profesional Interdisciplinaria de Ingeniería. Campus Guanajuato. Instituto Politécnico Nacional

BT34

Study of regulatory proteins in lipolysis: Perilipin 1
Nancy Yaneth Linares García. División de Biología Molecular. Instituto Potosino de Investigación Científica y Tecnológica A.C.

BT35

The effect of punctual mutations on the stability and aggregation state of human CGI-58 protein
Miriam Livier Llamas García. División de Biología Molecular. Instituto Potosino de Investigación Científica y Tecnológica A.C.

BT36

The contribution of the composition, processing, and modifications on the characteristics of natural extracellular matrix gels
Omar Gabriel López Campos. Unidad Profesional Interdisciplinaria de Ingeniería. Instituto Politécnico Nacional

BT37

Disintegrin and derivatives activity on integrins
Andrid López Clavijo. Instituto de Biotecnología. Universidad Nacional Autónoma de México

BT38

Comparison of recombinant antibody purification processes by pack-bed and membrane chromatography technique
Francisco E. Lopez Salas. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

BT39

5-hydroxymethyl-2-furaldehyde virulence factor inhibitor in Pseudomonas aeruginosa PA14
Daniela Luis Yong. Centro de Investigación de Micología Aplicada. Universidad Veracruzana

BT40

Effect of Xylaria curta extracts on the regulation of the Las system of P. aeruginosa

Daniela Luis Yong. Centro de Investigación de Micología Aplicada. Universidad Veracruzana

BT41

Antiacetylcholinesterase potential of extracts of carao pulp (Cassia grandis)

Víctor Manrique Fernández. Universidad de Extremadura

BT42

Towards development of a protocol to obtain transgenic Cactaceae plants

Alejandra Lara Vargas. Instituto de Biotecnología. Universidad Nacional Autónoma de México

BT43

Sphingosine 1 phosphate increases testosterone concentration and stimulates theca cells viability

Lydia Marín López. Facultad de Medicina Veterinaria y Zootecnia. Universidad Nacional Autónoma de México

BT44

Acrylamide adsorption on chitin beads

Silvia Martínez Hernández. Unidad de Estudios Superiores Tultitlán. Universidad Mexiquense del Bicentenario

BT45

Implementation of a toluene dioxygenase platform to boost hydrocarbon bioremediation with microbial consortia

Octavio Martínez Martínez. Facultad de Química. Universidad Nacional Autónoma de México

BT46

α -tocopherol production in anaerobic culture by Euglena gracilis

Luis Salvador Meneses Hernández. Instituto Nacional de Cardiología "Ignacio Chávez"

BT47

Systematic modifications of a biosensor based in a intrinsically disordered protein that tracks the effects of osmotic stress in Arabidopsis thaliana

Guadalupe Itzel Meneses Reyes. Facultad de Química. Universidad Nacional Autónoma de México

BT48

Transcriptome analysis of Persea americana cv. Hass highlights genes involved into zygotic embryogenesis process

Zurisadai Monroy González. Unidad de Bioquímica y Biología Molecular de Plantas. Centro de Investigación Científica de Yucatán A.C.

BT49

Total phenolic content and total triterpenoid content in Ageratina pichichensis and their in vitro cultures

Elizabeth Alejandra Motolinia Alcántara. Universidad Autónoma Metropolitana. Unidad Iztapalapa

BT50

Production of bioethanol from agro-industrial waste by microorganisms isolated from mining waste
Manuel Antonio Naranjo Reyes. Unidad Profesional Interdisciplinaria de Ingeniería. Campus Guanajuato.
Instituto Politécnico Nacional

BT51

Xylose reductase NADPH dependent and xylitol dehydrogenase NAD⁺ dependent from Clavispora lusitaniae
Odilia Pérez-Avalos. Departamento de Biotecnología y Bioingeniería. Cinvestav Zacatenco

BT52

Genetic resources and biotechnology in Habanero pepper (Capsicum chinense Jacq.) breeding
Gema Pijeira-Fernández. Centro de Investigación Científica de Yucatán

BT53

Nano-micellar technique to improve the quercetin stability
Laura Itzel Quintas Granados. Unidad de Estudios Superiores Tultitlán. Universidad Mexiquense del Bicentenario

BT54

Inhibition of hsa-miR-16a-5p decreases viability and survival of triple-negative breast cancer cells.
Rodolfo Reyes Morales. Laboratorio de Biotecnología Médica y Farmacéutica. Universidad Popular Autónoma del Estado de Puebla

BT55

Genetic transformation of the green microalga Chlamydomonas reinhardtii with the mNb6-tri gene encoding a trivalent nanobody that neutralizes the SARS-CoV-2 virus
Sandy Giselle Reyes Solian. Unidad de Biotecnología. Centro de Investigación Científica de Yucatán A.C.

BT56

Composition-structure-property relationship in decellularized esophageal matrix obtained from pigs of different ages
Rosalinda Rocha Juache. Unidad Profesional Interdisciplinaria de Ingeniería. Instituto Politécnico Nacional

BT57

Structural appendages of ETEC E9034A promote adherence to intestinal cells
Ricardo Rodríguez Martínez. Laboratorio de Investigación en Bacteriología Intestinal. Hospital Infantil de México Federico Gómez

BT58

Expression of bovine leukemia virus protein p12-p24 of genotype 1
José Hiram Sánchez Gasca. Instituto Nacional de Investigaciones Forestales Agrícolas y Pecuarias

BT59

Characterization of the antibiotic effect of supernatants of Streptomyces strains isolated from mining tailings from Guanajuato, Gto.
Juan Francisco Sánchez López. Unidad Profesional Interdisciplinaria de Ingeniería. IPN

BT60

Plasmid recovery from the bacterial inhabitants from the Mayan sinkhole Pol-ac located in Sisal, Yucatan
Nancy Dayan Torres Rodríguez. Unidad de Química Sisal, Yucatán. Facultad de Química. Universidad Nacional Autónoma de México

BT61

Theoretical and experimental analysis of the diagnostic strip design for the rapid detection of Bothrops asper venom in patient serum
Michelle Adelina Toscano Salazar. Instituto de Biotecnología. Universidad Nacional Autónoma de México

BT62

In silico analysis of the expression of nitrogen fixation genes in a lignocellulose degrading consortium
Fátima Gabriela Uicab Canul. Facultad de Ingeniería Química. Universidad Autónoma de Yucatán

BT63

Functional characterization of the Carotenoid Cleavage Dioxygenases BoCCD1-1 and BoCCD4-3 from Bixa orellana L. and identification of apocarotenoids with biotechnological potential
Rosa Yazmín Us Camas. Instituto Tecnológico Superior de Calkiní en el Estado de Campeche

BT64

cgigGFP and other fluorescent molecules in Condylactis gigantea
María Vanegas Reza. Instituto de Química. Universidad Nacional Autónoma de México

BT65

Comparative heterologous protein expression of the major allergen of Fraxinus tree pollen
Juan Carlos Vizuet-de-Rueda. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

BT66

Identification and characterization and of algae cell wall degrading specific enzymes from marine actinomycetales
Julian L. Wissner. Unidad de Química en Sisal. Facultad de Química. Universidad Nacional Autónoma de México

BT67

Optimization of the L-lactate oxidase from Aerococcus viridans for electrochemical biosensors
Andrés Zárate-Romero. Centro de Nanociencias y Nanotecnología. Universidad Nacional Autónoma de México

GENETICS, EPIGENETICS & GENETIC REGULATION IV**G78**

Transcriptional regulation of StEP, a self- incompatibility gene in Nicotiana
Renata Salcedo-Sánchez. Facultad de Química. Universidad Nacional Autónoma de México

G79

Two glucose-6-phosphatase isoforms are tissue-specific expressed under oxygen-limited and reoxygenation conditions in the shrimp Litopenaeus vannamei
Laura E. Hernández-Aguirre. Centro de Investigación en Alimentación y Desarrollo, A.C.

G80

Quorum sensing molecules control the oxidative stress response in the opportunistic fungal pathogen Candida glabrata

Carlos Ricardo González Ruiz. División Biología Molecular. Instituto Potosino de Investigación Científica y Tecnológica A.C.

G81

miR-193b-3p expression analysis and its possible influence over homologous recombination in triple-negative breast cancer derived cell lines

Julio Alejandro Sánchez-Pérez. FES Iztacala. Universidad Nacional Autónoma de México

G82

Epigenetic regulation and expression of the Ca²⁺ signaling genes in an Epithelial-Mesenchymal Transition model in breast cancer cell lines

Ana Cecilia Sánchez Trujillo. Facultad de Medicina. Universidad Nacional Autónoma de México

G83

Influence of epidrugs on dental stem cells from a biochemical and molecular approach

Angelica Anahi Serralta Interian. Facultad de Ingeniería Química. Universidad Autónoma de Yucatán

G84

Identifying Genes Devoted to the Cell Death Process in the Gene Regulatory Network of Ustilago maydis

Cinthia V. Soberanes Gutiérrez. Escuela Nacional de Estudios Superiores León. Universidad Nacional Autónoma de México

G85

Long non-coding RNAs and their association with stemness in triple-negative breast cancer

Olivia Téllez Jiménez. Instituto Nacional de Medicina Genómica

G86

Effect of valproic acid on the growth of dental stem cells

Anahí Torres Nájera. Facultad de Ingeniería Química. Universidad Autónoma de Yucatán

G87

Self-modulation of vector promoters by overexpressed bHLH transcription factors

Ana Lilia Torres-Machorro. Laboratorio de Biología Celular. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

G88

Role of HDAC3 on nuclear morphology and profibrotic phenotype in lung fibroblasts.

María Fernanda Toscano Márquez. Facultad de Medicina. Universidad Nacional Autónoma de México

G89

Phenotypic Analysis of insertional mutants of the A.thaliana twinkle primase helicase, SALK_152246, CS855183 WiscDsLox423D2 and SALK_148150.

Lilia María de Guadalupe Uribe Ramírez. Laboratorio Nacional de Genómica para la Biodiversidad

G90

Argonaute5 regulates the nodule development in Phaseolus vulgaris

Oswaldo Valdés López. FES Iztacala. Universidad Nacional Autónoma de México

G91

The Application of Ascorbic Acid (AsA) Improves the Quality of Solanum lycopersicum in the Vegetative

Víctor García-Gaytán. Laboratorio de Análisis y Diagnóstico del Patrimonio. El Colegio de Michoacán

G92

Molecular study of the "La" protein in the human pathogen Leishmania major

Sergio García De la Cruz. FES Iztacala. Universidad Nacional Autónoma de México

G93

The mitochondrial genome of healthy mice and humans contains a high diversity of genetic variants

Alfredo Varela-Echavarría. Instituto de Neurobiología. Universidad Nacional Autónoma de México

G94

Identification of genetic variants associated with susceptibility in the development of cervical cancer

María Guadalupe Vargas Solórzano. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

G95

Role of translation factor eIF4E family members during root development under abiotic stress in Arabidopsis thaliana

Ernesto Vázquez Chimalhua. Facultad de Química. Universidad Nacional Autónoma de México

G96

Expression in vitro of two virulence determinants from Avibacterium paragallinarum

Dorcas Flor Ramos Salas. Centro de Investigaciones en Ciencias Microbiológicas. Benemérita Universidad Autónoma de Puebla

G97

Abf1 as an essential protein in Candida glabrata, at different cellular processes

Laura Angélica Vera Salazar. Instituto Potosino de Investigación Científica y Tecnológica A.C.

G98

Identification of genetic alterations that lead to CRLF2 overexpression in pediatric pre-B acute lymphoblastic leukemia

Victoria Vieyra Fuentes. Laboratorio de Genética y Cáncer. Instituto Nacional de Pediatría

G99

Molecular analysis of Tau95 and Tau131, subunits of transcription factor TFIIIC, in the human pathogen Leishmania major

Gino Stefano Villa Delavequia. FES Iztacala. Universidad Nacional Autónoma de México

G100

Evaluation of As₂O₃, NaAsO₂ and Na₂HAsO₄ on p53 regulation in SiHa, CaLo, C33-A and HaCat cell lines

Ixamail Fraire Soto. Unidad Académica de Ciencias Biológicas. Universidad Autónoma de Zacatecas

G101

Assessing the role of Hog1 in neutral lipid synthesis in the yeast Debaryomyces hansenii
Diana Villarreal-Huerta. Facultad de Ciencias. Universidad Nacional Autónoma de México

G102

Expression profile of six genes involved in neutral lipid synthesis in antarctic yeast Rhodotorula mucilaginosa
Alberto Zamora Bello. Facultad de Ciencias. Universidad Nacional Autónoma de México

G103

Transgenerational effects of glucose exposure over C. elegans behavior
Mariana Zurita Leon. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

G104

Analysis of the alternative sigma factors effect on the genetic expression of the Klebsiella pneumoniae virulence factors
Cecilia Luz Colin Olvera. Unidad de Investigación en Enfermedades Infecciosas. Hospital de Pediatría, Centro Médico Nacional Siglo XXI. IMSS

OTHERS II**O36**

Effect of pravastatin on vascular reactivity to phenylephrine in a rat model of preeclampsia
Damián A Madrigal Aguilar. Escuela Superior de Medicina. Instituto Politécnico Nacional

O37

Generation of several high-affinity mAbs anti-Hev b 8 to analyze cross-reactivity among profilin allergens
José Israel Mares Mejía. Instituto de Química. Universidad Nacional Autónoma de México

O38

Design of dsRNA-based fungicides for the control of coffee pathogen Hemileia vastatrix
Maximiliano López Morales. Universidad del Papaloapan, Campus Tuxtepec

O39

Learning and Evaluation in Biochemical Sciences Education
Rebeca Etelvina Milán Chávez. Facultad de Medicina. Universidad Nacional Autónoma de México

O40

Inhibition of Cu(II) induced amyloid fibers formation of the 6aJL2-R24G protein.
Alan Morales Ortiz. Centro de investigación en dinámica celular. Universidad Autónoma del Estado de Morelos

O41

Resonant acoustic mixing to enhance outer-membrane vesicles released by Escherichia coli
Laura María Muñoz Echeverri. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

O42

Structural Analysis of Capsicum defensin J1-1 and Expression of J1-1 K45E Variant in Escherichia coli
Gilberto Andrés Muñoz Pérez. Centro de Investigación Científica de Yucatán A.C.

O43

Mitochondrial and peroxisome dynamics during sexual development of Podospora anserina
Raful Navarro Espíndola. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

O44

Effect of chronic stress on epididymal sperm quality and testicular histology
Vanessa Guadalupe Nolasco Garduño. Centro Tlaxcala de Biología de la Conducta. Universidad Autónoma de Tlaxcala

O45

Cellular scaffolds for bone tissue of marine origin
Israel Alfonso Nuñez Tapia. Instituto de Investigaciones en Materiales. Universidad Nacional Autónoma de México

O46

Bioinformatic identification of SCNA associated lncRNAs regulators of tumoral phenotype in colorectal cancer
Héctor Herrera Orozco. FES Iztacala. Universidad Nacional Autónoma de México

O47

DhDIT2, encodes a cytochrome P450 from Debaryomyces hansenii which participates into the degradation of benzo(a)pyrene. A proposal for myco-remediation.
Francisco Padilla-Garfias. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

O48

Antitumoral activity evaluation of methanolic extract of Annona macrophyllata on colorectal cancer.
Eduardo Pérez Arteaga. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

O49

Inhibition of TGF- β s and their receptors by calcitriol in trophoblast cells
Erika Pérez Ortiz. Departamento de Biología de la Reproducción. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

O50

Characterization functional of K_{ir} channels in triple-negative breast cancer
Linley Pammely Prado Celis. Centro Universitario de Investigaciones Biomédicas. Universidad de Colima

O51

Cytokinetic furrow formation promotes DNA damage and expression of p53 targets
Oscar Antonio Ramírez Vega. Instituto Nacional de Cancerología

O52

Elucidation of factors involved in modulating DisA-dependent/independent checkpoint events during germination/outgrowth of Bacillus subtilis spores

Alejandra Rangel Mendoza. Departamento de Biología. Universidad de Guanajuato

O53

Therapeutic effect of laherradurine isolated of Annona macrophyllata on colorectal cancer

Michael Joshue Rendón Barrón. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

O54

Cardiac T Tubule system remodeling in a diabetic biomodel

Erick Enrique Rivas Oliver. Instituto de Fisiología. Benemérita Universidad Autónoma de Puebla

O55

Evaluation of HPV E1 transcript in extracellular vesicles; presence and transmission to HPV-negative keratinocytes

Ruth Monserrat Rodríguez Hernández. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

O56

Stability of non-symmetric de novo TIM-barrels

Oscar de Jesús Rodríguez Meza. Facultad de Química. Universidad Nacional Autónoma de México

O57

Perilipin isoforms expression is differentially regulated in T4-treated insulin-resistant rat hearts

Guadalupe Itzzel Rodríguez Vazquez. Departamento de Ciencias Químico-Biológicas y Agropecuarias. Universidad de Sonora

O58

Analysis of the protein profile of the flight muscles of Aedes aegypti

José Ángel Rubio Miranda. Departamento de Infectómica y Patogénesis Molecular. Cinvestav Zacatenco

O59

Phytochemical biodirected study of the components with anti-neuraminidase activity present in leaf and flower extracts of Erythrostemon yucatanensis (Greenm).

Nahomi Sáman Hernández. Centro de Investigación Científica de Yucatán A.C.

O60

Bactericidal/permeability increasing protein (BPI) exerts bactericidal activity against Mycobacterium tuberculosis

Silvia Guzmán Beltrán. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

O61

3D printed paper spray ionization platform coupled to mass spectrometry for automated chemical analyses

Leonardo Daniel Soto-Rodríguez. Laboratorio Nacional de Genómica para la Biodiversidad. Cinvestav

O62

Using standard optical microscopy to visualize label-free fungal, animal tissue, and plant samples in 3D
Braulio Gutiérrez Medina. División de Materiales Avanzados. Instituto Potosino de Investigación Científica y Tecnológica A.C.

O63

The effect of resveratrol as a radiosensitizer in cervical cancer cell lines through the inhibition of DNA damage repair pathways by homologous recombination (HR) and non-homologous recombination (NHEJ)
Andrea Torres Acosta. Instituto Nacional de Cancerología

O64

Real-time VOC's measurements emitted by Neochloris oleoabundans
Laura Rosina Torres Ortega. Laboratorio Nacional de Genómica para la Biodiversidad. Cinvestav Irapuato

O65

Metabolic features in offspring of mouse mothers with hyperandrogenism
Nayeli Torres Ramírez. Facultad de Ciencias. Universidad Nacional Autónoma de México

O66

Resonant acoustic mixing improves recombinant protein production in Pichia pastoris (Komagataella phaffii) shake flask cultures
Mauricio A. Trujillo-Roldan. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

O67

Effect of metformin on the enzyme IDO1 in cervical tissue of the murine model K14E7
Luz del Carmen Valerio Jacome. Departamento de Genética y Biología Molecular. Cinvestav Zacatenco

O68

Biochemical characterization of compounds from Heloderma horridum horridum venom.
Diana I. Zavalza-Galvez. Facultad de Ciencias Químicas. Universidad de Colima

O69

The Oxygen Transfer Rate (OTR), in shake flasks, determines the growth and metabolism of Piscirickettsia salmonis.
Patricio Alejandro Zelada Cordero. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

O70

Metabolic biomarkers of agronomic and quality properties of coffee varieties
Hilda E. Ramos-Aboites. Cinvestav. UGA-Langebio Unidad Irapuato

SIGNAL TRANSDUCTION AND CELL DIFFERENTIATION II**ST27**

Comparison of total phosphorylation in cervical cancer cells cultured in monolayer and in a three-dimensional system
Fernando Abdías López Alva. FES Zaragoza. Universidad Nacional Autónoma de México

ST28

Boric acid orchestrates shoot and root development in Arabidopsis seedlings and improves meristem viability in mediator18 mutants

José López Bucio. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

ST29

Effect of hyperglycemia and inflammation on the macrophage polarization mediated by Resveratrol and D3T

Josué Manríquez Núñez. Departamento de Investigación y Posgrado en Alimentos. Universidad Autónoma de Querétaro

ST30

Effect of Toll-like receptor 4 (TLR-4) activation by LPS on the migratory and proliferative capacity of prostate cancer tumor cells, PC-3.

María de los Ángeles Manzano Hernández. Instituto de Fisiología. Benemérita Universidad Autónoma de Puebla

ST31

Differential effects of fentanyl and methadone on mast cells

Frida Leticia Martínez Cuevas. Departamento de Farmacobiología. Cinvestav Sede Sur

ST32

Interaction between Wnt and lysophosphatidic acid (LPA) receptor signaling pathways in colon cancer

Juan Carlos Martínez Morales. Facultad de Medicina. Universidad Nacional Autónoma de México

ST33

Effect of the IGF-2/IGF-1R complex on the migration capacity of the MDA-MB 231 cells: role of ER β activation.

Max Alejandro Maximino Rojas. Instituto de Fisiología. Benemérita Universidad Autónoma de Puebla

ST34

Autophagy signaling during germinal cell death in ovaries from prepubertal rats

Israel Muñoz-Velasco. Facultad de Ciencias. Universidad Nacional Autónoma de México

ST35

Role of hydrophobins in asexual spore development in Neurospora crassa

Omar Páez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ST36

MlBig1 controls Arf2 activation during Mucor lusitanicus yeast development through the PKA pathway

J. Alberto Patiño Medina. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

ST37

Isolation and characterization of Arabidopsis mutants with enhanced tolerance to serotonin

Ramón Pelagio flores. Universidad Michoacana de San Nicolás de Hidalgo

ST38

Effect of O-GlcNAcylation on AKT phosphorylation in oral cancer cells

Teresa de Jesús Pérez-Cruz. Facultad de Medicina y Cirugía. Universidad Autónoma Benito Juárez de Oaxaca

ST39

Symbiodinium microadriaticum CassKB8.

Tania Islas Flores. Instituto de Ciencias del Mar y Limnología. Universidad Nacional Autónoma de México

ST40

Identification of signaling proteins involved in CD13-mediated cell adhesion and phagocytosis

Kenia Elizabeth Ramos Mexicano. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

ST41

Transcriptional analysis of the Gac/Rsm pathway in Azotobacter vinelandii under nitrogen fixation /non nitrogen fixation condition

Luis Angel García Tejeda. Benemérita Universidad Autónoma de Puebla

ST42

Simultaneous evaluation of changes in intracellular calcium, membrane potential, and intracellular pH during capacitation in human spermatozoa

Emmanuel Rodríguez-Zamarripa. Instituto de Biotecnología. Universidad Nacional Autónoma de México

ST43

Effect of nobiletin on the SCC-9 cell line in the induction of apoptosis and cell migration

Marisol Rosas Martínez. Facultad de Odontología. Universidad Nacional Autónoma de México

ST44

Nobiletin regulates invasion, migration and metastasis in squamous cell carcinoma of the hypopharynx.

Marisol Rosas Martínez. Facultad de Odontología. Universidad Nacional Autónoma de México

ST45

Dissecting the Activation of Group I PAK Kinases by Using a FRET Based Biosensor

Héctor Iván Saldívar Cerón. FES Iztacala. Universidad Nacional Autónoma de México

ST46

Contribution of the mitogen-activated protein kinase Hog1 to the halotolerance of the marine yeast Debaryomyces hansenii

Norma Silvia Sánchez. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ST47

Characterization of Non-canonical Wnt signaling in cancer stem cells of colorectal cancer

Miguel Angel Sarabia Sánchez. Facultad de Medicina. Universidad Nacional Autónoma de México

ST48

Increased O-GlcNAcylation promotes IGF-1 receptor/Phosphatidyl Inositol-3 kinase/Akt pathway in cervical cancer cells

Carlos Josué Solórzano Mata. Universidad Autónoma Benito Juárez de Oaxaca

ST49

TGF- β /SMAD canonical pathway induces the expression of TAZ (WWTR1) transcriptional cofactor in liver cancer cells

Marcela Sosa Garrocho. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

ST50

Activating the CD95/CD95L pathway induces proliferation in HPV+ cervical cancer cells

Isabel Soto Cruz. FES Zaragoza. Universidad Nacional Autónoma de México

ST51

Role of the GPR30 receptor in the epithelial-mesenchymal transition induced by IL-6 in luminal breast cancer cells

Ana Carolina Tirado Garibay. Facultad de Medicina Veterinaria y Zootecnia. Universidad Michoacana de San Nicolás de Hidalgo

ST52

Evaluation of the anti-adipogenic effect of novel estrogen receptor BETA ligands

María Fernanda Torres Rojas. Escuela Nacional de Medicina y Homeopatía. Instituto Politécnico Nacional

ST53

Biochemical and molecular characterization of a 29 kDa protein from Symbiodinium microadriaticum CassKB8 that is phosphorylated on threonine in response to light.

Viviana A. Urban Sosa. Instituto de Ciencias del Mar y Limnología. Universidad Nacional Autónoma de México

ST54

A PTP1B-Cdk3 signaling pathway regulates cell cycle progression through Rb-E2F activation in human glioblastoma cells

Olga Villamar Cruz. FES Iztacala. Universidad Nacional Autónoma de México

ST55

SBIP1 is a chaperone from Symbiodiniaceae that is activated by light and temperature

Marco Antonio Villanueva Méndez. Instituto de Ciencias del Mar y Limnología. Universidad Nacional Autónoma de México

ST56

Evaluation of Akt and NF- κ B signaling in MCF-7 cells exposed to sera from obese women treated with Metformin

Alejandro Zentella Dehesa. Instituto de Investigaciones Biomédicas. Universidad Nacional Autónoma de México

SYSTEMS BIOLOGY & BIOINFORMATICS II**SB34**

Analysis of genetic biomarkers for atherosclerosis in endothelial cells

María Montserrat Loredo Guillén. IICBA. Universidad Autónoma del Estado de Morelos

SB35

Identification of CRISPR-Cas systems in genomes of Acinetobacter calcoaceticus-Acinetobacter baumannii complex

Jetsi Viridiana Mancilla Rojano. Hospital Infantil de México Federico Gómez

SB36

Exploring the unfolding free energy landscape of the thermophilic β -ATPase subunit by molecular dynamics simulations

Edgar López. Universidad Autónoma Metropolitana

SB37

Characterization of the coupling mechanism of scorpion β -neurotoxins on the voltage-gated sodium channel hNav1.6

Pavel Andrei Montero Domínguez. Instituto de Biotecnología. Universidad Nacional Autónoma de México

SB38

Characterization of the docking mechanism of dopamine agonist on the dopamine receptor 2

Dulce Elena Letras Luna. Universidad Autónoma de Puebla

SB39

In silico analysis of promoters of putative genes encoding chondroitin lyases in Avibacterium paragallinarum

Héctor Hugo Moreno Castillo. Instituto de Ciencias. Universidad Autónoma de Puebla

SB40

Towards the creation of a metabolomics database of terrestrial and marine species in México

Aldo Moreno Ulloa. Centro de Investigación Científica y de Educación Superior de Ensenada

SB41

Repositioning of molecules with potential senolytic activity using virtual screening

Kevin Samael Olascoaga-Del Ángel. Universidad Autónoma Metropolitana - Iztapalapa

SB42

Transcriptomical analysis of floral development of ciricote (Cordia sebestena).

Orlando Emanuel Osorio Pinelo. Unidad de Biotecnología. Centro de Investigación Científica de Yucatán A.C.

SB43

A miRNA-based deep learning model to boost the predictive power of obesity clinical/metabolically markers

Cesaré Ovando-Vázquez. Instituto Potosino de Investigación Científica y Tecnológica A.C.

SB44

Study of changes in the gastrointestinal archaeome and its relationship with cardiovascular risk

Betsy Anaíd Peña Ocaña. Instituto Nacional de Cardiología "Ignacio Chávez"

SB45

Parametrization of the FvCB Biochemical Model for C3 Photosynthesis using Bayesian Inference
Uriel G. Pérez Guerrero. ENES León. Universidad Nacional Autónoma de México

SB46

Gene co-expression network and the regulation by the RNAi machinery during mycoparasitism in Trichoderma atroviride
Camilo Pérez Salazar. UGA – LANGEBIO. Cinvestav Irapuato

SB47

Lea-like proteins in desiccation-tolerant organisms
Diego Pérez Villanueva. Facultad de Química. Universidad Nacional Autónoma de México

SB48

Bioinformatic analysis of the interaction between the human heat shock protein 70 (HSP70) with its target proteins
Luis Ángel Rodríguez García. Universidad Autónoma Metropolitana Cuajimalpa

SB49

Characterization of a Vaccinia virus isolate from an immunocompromised patient with progressive vaccinia in Colombia
Paola Rojas-Estevez. Empresa Nacional Promotora del Desarrollo Territorial

SB50

3'-UTR of the SARS-CoV-2 genome as a possible source of piRNAs
Carlos Romero Díaz. Instituto Tecnológico de Oaxaca

SB51

Exploring the diversity, ecology, and evolution of cyclomaltodextrin glucanotransferases in domains bacteria and archaea
Xitlalli Montserrat Romero Jiménez. Universidad de Colima

SB52

Molecular and biochemical analysis of glutamate receptors family (GLR) in Solanaceae, using the habanero pepper (Capsicum chinense Jacq.) as a model
Fabiola Guadalupe León García. Centro de Investigación Científica de Yucatán A.C.

SB53

The spatial structure in bacteria communities with metabolic interactions because of selection pressures
Sofía Roque Romero. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

SB54

Transcriptional heterogeneity of stationary-phase budding yeast cells
Ivón Elizabeth Salazar Martínez. UGA - LANGEBIO. Cinvestav Irapuato

SB55

Analysis of a polygenetic risk function for Osteosarcoma
Mariana Sánchez Hernández. Facultad de Nutrición. Universidad Autónoma del Estado de Morelos

SB56

*Unveiling metabolic traits of *Argemone mexicana* L. rhizobiome*

José Germán Serrano-Gamboa. Centro de Investigación Científica de Yucatán A.C.

SB57

In silico identification of riboswitch motifs within prokaryotic genome codifying sequences reveals recurrent annotation errors

Mariela Serrano Gutiérrez. Instituto de Biotecnología. Universidad Nacional Autónoma de México

SB58

Biological activity estimation of peptides derived from grain through computational prediction algorithms in metabolic diseases

Ana Alondra Sobrevilla Navarro. Centro Universitario de Tonalá. Universidad de Guadalajara

SB59

*Study of cross-resistance and collateral sensitivity to beta-lactam antibiotics in an *Escherichia coli* system with different antibiotic resistance genes TEM*

Monica Tapia Rojas. Centro de Ciencias Genómicas. Universidad Nacional Autónoma de México

SB60

*Relationship between genes involved in glycerol and triacylglycerol biosynthesis under nitrogen starvation in *Chlamydomonas reinhardtii*: a bioinformatic analysis*

Jorge Antonio Tzec-Interián. Centro de Investigación Científica de Yucatán A.C.

SB61

Biogeochemical functions of bacterial communities inhabiting wetland sediments of the Yucatán Coast

Daniel Adán Vázquez-Carrillo. ENES Mérida. Universidad Nacional Autónoma de México

SB62

*Inferring co-expression networks of *Arabidopsis thaliana* genes during their interaction with *Trichoderma spp.**

Javier David Vega Arroy. Instituto Potosino de Investigación Científica y Tecnológica A.C.

SB63

Ligand transport analysis of malonate prodrugs through succinate dehydrogenase by Cover Web and CICLOP

Erica Karime Ventura García. Facultad de Ciencias Químicas. Universidad Juárez del Estado de Durango

SB64

*Predicting Transcription Factor Candidates that Regulate Genes of the Carotenoid Biosynthetic Pathway in Fruits of *Capsicum spp**

Maria Guadalupe Villa-Rivera. Cinvestav Irapuato

SB65

A novel motif ($N\beta$) that leads secretion of lacking signal peptide proteins

Andre Zaragoza Gómez. Facultad de Ciencias. Universidad Nacional Autónoma de México

TOXICOLOGY AND PHARMACOLOGY II

TP27

Determination of the effect of prenylated chalcones on the membrane potential, apoptosis and metabolome of castration-resistant cells in prostate cancer

Marcos Morales Reyna. Centro de Ciencias Genómicas. Universidad Autónoma de la Ciudad de México

TP28

Environmental Cd exposure as a factor risk to insulin resistance development: A peep to insulin secretion mechanisms.

Diana Moroni González. Facultad de Ciencias Químicas. Benemérita Universidad Autónoma de Puebla

TP29

Anti-inflammatory effects of polyphenolic extract of Vitis vinifera pomace on carrageenan induced paw edema

Sendar Daniel Nery-Flores. Facultad de Ciencias Químicas, Universidad Autónoma de Coahuila.

TP30

Morphological characterization and phytochemical evaluation of Callistemon citrinus leaf phytosomes

Luis Gerardo Ortega-Pérez. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

TP31

Sucrose and arsenic induce muscular insulin resistance through different pathways which are muscle-dependent

Juan Pablo Pánico Molina. Instituto de Fisiología Celular. Universidad Nacional Autónoma de México

TP32

Obtaining and evaluating the toxicity of plant extracts of Solanum cervantesii and other species of the Solanaceae family from Huixquilucan, State of Mexico.

Darline Paz-Molares. Tecnológico de Estudios Superiores de Huixquilucan

TP33

Microplastics in tropical gar's diet (Atractosteus tropicus): effects on enzyme activities

Alejandra Pérez López. División Académica de Ciencias Biológicas. Universidad Juárez Autónoma de Tabasco

TP34

Oxidative stress in Lithobates catesbeianus by test exposure to chlorothalonil

Amparo Celene Razo Estrada. Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional

TP35

Toxicological effects of acute administration of Spathodea campanulata in Wistar Rats

Jose Alberto Martínez Mariano. Facultad de Ciencias Médicas y Biológicas. Universidad Michoacana de San Nicolás de Hidalgo

TP36

The drug combination doxorubicin, metformin and sodium oxamate inhibit cell proliferation through β -catenin inactivation in sarcoma cell lines.

Frida Citlali Rodríguez Izquierdo. FES Iztacala UNAM. Instituto Nacional de Cancerología

TP37

Targeted inhibition of oncogene ERBB2 and related genes of interest in HER2 positive breast cancer cells IGF-1R and ITGB1 due to siRNA activity.

Rodolfo Miranda Espino. Facultad de Ciencias Químicas. Universidad Autónoma de Nuevo León

TP38

Apoptotic and autophagic effect of lithium salts in an in vitro model of cervical cancer

Gareth Omar Rostro Alonso. FES Zaragoza. Universidad Nacional Autónoma de México

TP39

Alpha-linolenic acid, an omega-3 polyunsaturated acid protects against indomethacin-induced gastric injury in the rat

Cristina Salinas Nolasco. Escuela Nacional de Medicina y Homeopatía. Instituto Politécnico Nacional

TP40

Collection and Physicochemical Characterization of Expired Acetaminophen

José Angel Sánchez Peregrino. División Académica de Ciencias Básicas. Universidad Juárez Autónoma de Tabasco

TP41

Effect of DHA on oxidative stress and microbiota in a murine model of indomethacin- induced intestinal damage

Martha Ivonne Sánchez Trigueros. Escuela Nacional de Medicina y Homeopatía. Instituto Politécnico Nacional

TP42

Treatment of preeclampsia with metformin: effects in reverting fetal programming of breeding.

Gerardo Abraham Santana Sierra. Escuela Superior de Medicina. Instituto Politécnico Nacional

TP43

Chimera designed with hypothetical activity against Trichomonas vaginalis

José Alberto Santiago de la Cruz. Posgrado en Ciencias Genómicas. Universidad Autónoma de la Ciudad de México

TP44

Particulate matter PM₁₀ affects the mismatch repair (MMR) pathway through SETD2 downregulation

Miguel Santibáñez Andrade. Instituto Nacional de Cancerología

TP45

The antidepressant drug sertraline inhibits Kv4.2 channels

Lorena Beatriz Segura Leal. Centro Universitario de Investigaciones Biomédicas. Universidad de Colima

TP46

Effect of hydrogen sulfide on vascular dysfunction induced by type 2 Diabetes Mellitus in rat thoracic aorta.

Diana Laura Silva Velasco. Departamento de Farmacobiología. Cinvestav Sede Sur

TP47

C-phycoyanin prevents impaired AT1, AT2, and Mas receptors expression, endothelial dysfunction, and hypertension caused by chronic kidney disease.

Jorge Alberto Tapia -Martínez. Departamento de Farmacobiología. Cinvestav Sede Sur

TP48

Epicatechin effect in an experimental pre-eclampsia model

Cecilia del Carmen Tufiño Martínez. Escuela Superior de Medicina. Instituto Politécnico Nacional

TP49

Polyphenols inhibit tumor growth and could be used as an alternative for chemo-sensitization in oral cavity and oropharyngeal carcinoma

Heriberto Abraham Valencia González. Instituto de Investigaciones Biomédicas. Instituto Nacional de Cancerología