

11:00 – 18:00 Registration  
Hotel Marriott

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**Opening Ceremony, Plenary Lectures**

San Marcos Room

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17:00 – 17:30    Opening Ceremony

17:30 – 18:30    **Opening Lecture**  
Science according to Federico Sanchez: about staying young as a scientist  
**Herman Spaink**  
Leiden University  
“*In Memoriam* Dr. Federico Sánchez Rodríguez”

Chair: *Miguel Lara Flores*  
Instituto de Biología, UNAM

18:30 – 19:30    **Plenary Lecture**  
Structural biology of TGF-beta family signaling proteins – new insights into mechanism  
to novel therapies for cancer and fibrosis  
**Andrew P. Hinck**  
University of Pittsburgh School of Medicine

Chair: *Luis Brieba de Castro*  
LANGEBIO CINVESTAV Unidad Irapuato

19:30 – 21:30    Welcome Cocktail  
Garden Hotel Marriott

Oral presentations will be held in the San Marcos Room, Hotel Marriott

Poster presentations will be held in the Garden, Hotel Marriott

Monday November 7, 2016

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### 8:30 – 10:30 Plenary Lectures

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8:30 – 9:30 Evolutionary implications of hybridization in fungi

**Toni Gabaldón**

ICREA Research Professor, Comparative Genomics Group, Centre for Genomic Regulation (CRG), Barcelona, Spain

Chair: *Irene Castaño*

IPICYT

9:30 – 10:30 The physiology and habitat of LUCA: the last universal common ancestor

**William F. Martin**

Heinrich HeineUniversität Düsseldorf, Germany

Chair: *Guadalupe Espín*

Instituto de Biotecnología, UNAM

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10:30 – 11:00 Coffee break

Foyer San Marcos Room

## Concurrent Sessions

Monday November 7, 2016

11:00 – 13:30	<b>1. Biotechnology</b>  <b>San Marcos One Room</b>	<b>2. Basic Biochemistry</b>  <b>San Marcos Two Room</b>	<b>3. Genetic, Epigenetic &amp; Genetic Regulation</b>  <b>San Marcos Three Room</b>
	Chair: <i>Ana Paulina Barba</i> IPICyT	Chair: <i>Gloria Yepiz</i> CIAD Hermosillo	Chair: <i>Norma Silvia Sánchez</i> IFC UNAM
11:00-11:20	<b>Effect of PH on <i>E. Coli</i> producer of a phospholipase A2 from <i>Micrurus laticollaris</i> snake venom.</b> <i>Carlos Calcines Cruz, Mauricio A. Trujillo Roldán, Alejandro Olvera, Alejandro Alagón Norma A. Valdez Cruz.</i> Instituto de Investigaciones Biomédicas, UNAM	<b>Change in protein-ligand specificity through statistical coupling analysis.</b> <i>Jesús A. Banda Vázquez, Sooruban Shanmugaratnam, Rogelio Rodríguez Sotres, Alfredo Torres Larios, Birte Höcker, Alejandro Sosa Peinado.</i> Facultad de Medicina, UNAM	<b>Glucose regulates lifespan through a network of stress-responsive transcription factors in <i>Caenorhabditis elegans</i>.</b> <i>Jonathan Alcántar Fernández, Rosa Estela Navarro González, Ana María Salazar Martínez, Martha Elva Pérez Andrade, Juan Miranda Ríos.</i> Instituto de Investigaciones Biomédicas, UNAM
11:20-11:40	<b>Biodegradation of Diclofenac by the native fungi <i>Pleurotus djamor</i> isolated from Chiapas</b> <i>Rosbi Cruz Ornelas, Lorena Amaya Delgado, Griselda Karina Guillén Navarro, José Ernesto Sánchez Vázquez, María de los Ángeles Calixto Romo.</i> Colegio de la Frontera Sur	<b>Comparative study of transport and assimilation of xylose in conventional and non-conventional yeasts</b> <i>Alejandra Karina Estrada Ávila, Antonio Peña Díaz, Juan Carlos González Hernández, Alicia González Manjarrez.</i> Instituto de Fisiología Celular, UNAM	<b>Microarray Analysis of differentially expressed genes in trophoblast with iodine deficiency.</b> <i>Arroyo Helguera Omar Elind, Xochihua Rosas Irene, Jiménez González Azalia, and Garduño Gabriel.</i> INSP, Universidad Veracruzana
11:40-12:00	<b>The Defensin from Avocado (<i>Persea americana var. Drymifolia</i>) padeF Induces Apoptosis in the Leukemia Cell Line K-562.</b> <i>Luis José Flores Álvarez, Rodolfo López Gómez, Alejandra Ochoa Zarzosa, Joel Edmundo López Meza.</i> Universidad Michoacana de San Nicolás de Hidalgo	<b>Analysis of the Redox Components of <i>Bacillus subtilis</i> cytochrome <i>b6c</i> Complex. The Activity of a Menaquinol: cytochrome c Reductase.</b> <i>Ana Paula García García, Emma Berta Gutiérrez, Cirlos Madrid.</i> FES Iztacala, UNAM	<b>Co-regulation of CSD1 and ADH1 mRNAs by miR398 and miR2119 in response to stress in <i>Phaseolus vulgaris</i>.</b> <i>Carlos De la Rosa, Alejandra A. Covarrubias, José Luis Reyes.</i> Instituto de Biotecnología, UNAM
12:00-12:20	<b>Soil and rhizospheric bacteria with inhibition of root rot causing pathogens in chili pepper, with differential SAR related gene induction in plant: nine partially sequenced genomes.</b> <i>Saúl Fraire Velázquez, Martínez Raudales Inés, De La Cruz Rodríguez Yumiko, Alvarado Gutiérrez Alejandro, Vega Arreguín Julio.</i> Universidad Autónoma de Zacatecas	<b>Biological Activity or extracts <i>Tournefortia spp.</i> Cell Line MCF-7 breast cancer and HeLa of cervical cancer.</b> <i>Laura Pérez Campos, Zoila Mora Guzmán, Luis Ángel Laguna Barrios, Ruth Martínez Cruz, Rebeca López Marure, Eduardo Pérez Campos, Ma. Del Socorro Pina Canseco.</i> Instituto Tecnológico de Oaxaca	<b>Novel mechanisms of lifespan extension revealed by genome-wide screening of dietary-restriction factors in yeast.</b> <i>Sergio Esteban Campos Rodríguez, Erika Garay, Alejandro Juárez Reyes, Alexander de Luna.</i> LANGEBIO. CINVESTAV. Irapuato

	<b>1. Biotechnology</b>  <b>San Marcos One Room</b>	<b>2. Basic Biochemistry</b>  <b>San Marcos Two Room</b>	<b>3. Genetic, Epigenetic &amp; Genetic Regulation</b>  <b>San Marcos Three Room</b>
	Chair: <i>Ana Paulina Barba.</i> IPICYT	Chair: <i>Gloria Yepiz</i> CIAD. Hermosillo	Chair: <i>Norma Silvia Sánchez</i> IFC UNAM
12:20-12:40	<b>Oxygen transfer rate affects undecylprodigiosin synthesis in <i>Streptomyces lividans</i>: relation with recombinant glycoprotein production.</b> <i>Ramsés A. Gamboa</i> <i>Suasnávar, Luz D. Marín</i> <i>Palacio, Norma A. Valdez</i> <i>Cruz, Wolf Klöckner,</i> <i>Jochenbüchs and Mauricio A. Trujillo Roldán.</i> Instituto de Investigaciones Biomédicas, UNAM	<b>17-DMAG disturb the subcelular and extracellular localization between Hsp90<math>\alpha</math> and Hsp90<math>\beta</math> and determines the cell migration capacity in cervical cancer cells.</b> <i>Morales Guadarrama Silvia Gabriela,</i> <i>José de la Luz Díaz Chávez,</i> <i>Alejandro López Saavedra,</i> <i>Luis Alonso Herrera Montalvo,</i> <i>Carlo César Cortés González.</i> Investigación Biomédica en Cáncer. IIB. UNAM	<b>Genetic and genomic analysis of zygotic genome activation in <i>Arabidopsis</i>.</b> <i>Gerardo Del Toro de León, Daoquan Xian, Cei Abreu Goodger, Raju Datla, Stewart Gillmor.</i> Langebio. CINVESTAV. Irapuato
12:40-13:00	<b>Engineered Cytochrome P450 BM-3 reductase domain stabilized by consensus mutagenesis.</b> <i>Valeria Guzmán Luna, Gloria Saab Rincón, Hanan Alwaseem, Rudi Fasan, Frances H. Arnold</i> Instituto de Biotecnología, UNAM	<b>Semi-automatized analysis using image-based flow cytometry to study capacitation-associated increase in tyrosine phosphorylation in human sperm.</b> <i>Arturo Matamoros Volante, Ayelen Moreno</i> <i>Laura Giojalas, Claudia L.Treviño.</i> Instituto de Biotecnología, UNAM	<b>Local DNA topology is a selection factor that determines the association of DNA to the nuclear matrix.</b> <i>David García Vilchis, Armando Aranda Anzaldo.</i> Facultad de Medicina, Universidad Autónoma del Estado de México
13:00-13:20	<b>Some like it hot: Biomolecular analytics using MicroScale Thermophoresis.</b> <i>Dinorah Leyva.</i> NanoTemper Technologies do Brasil Ltd	<b><i>Moringa oleifera</i> leaf extract preserves mitochondrial respiratory activity in HepG2 cells exposed to hyperglycemia.</b> <i>Jorge Alejandro Sosa Gutiérrez, Mónica Valdez Solana, Maurizio Battino, Alfredo Téllez Valencia, Claudia Domínguez Avitia, Gonzalo García Vargas, Oscar Flores Herrera, José Salas Pacheco, Erick Sierra Campos.</i> Universidad Juárez del Estado de Durango	<b>Npa3/ScGpn1 carboxy-terminal domain is dispensable for cell viability and RNA polymerase II nuclear targeting but critical for microtubule stability and function</b> <i>Gehenna Lobo Guerrero Serrano, Leonardo Castañedo, Gema R. Cristóbal Mondragón, Javier Montalvo Arredondo, Lina Riego Ruiz, Alexander De Luna, Alejandro De Las Peñas, Irene Castaño, Mónica R. Calera, Roberto Sánchez Olea.</i> Instituto de Física, Universidad Autónoma de San Luis Potosí

13:30 – 15:30 Lunch

## **Plenary Session 1**

Monday November 7, 2016

15:30 – 18:00

San Marcos Room I

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### **Protein Structure and Function**

Chair: *Luis Brieba de Castro*

LANGEBIO CINVESTAV Unidad Irapuato

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15:30 – 16:00 Structural biology of organellar replisomes  
Noe Baruch, Alma Fuentes, Antolin Peralta, Annia Rodriguez, Carlos Trasviña, María E Sánchez, Corina Díaz Quezada, Alfredo Torres Larios and **Luis G. Brieba**  
LANGEBIO CINVESTAV Unidad Irapuato

16:00 – 16:30 Roles of Non-Catalytic Residues in the Activity and Regulation of Plant ALDH10 Enzymes  
**Rosario Muñoz Clares**  
Departamento de Bioquímica, Facultad de Química. UNAM

16:30 – 17:00 tRNA loading by divergent pathways  
Marco Igor Valencia Sánchez, Annia Rodríguez Hernández, Rubén Ferreira, Hugo Aníbal Santamaría Suárez, Marcelino Arciniega, Anne Catherine Dock Bregeon, Dino Moras, Brice Beinsteiner, Haydyn Mertens, Dmitri Svergun, Luis G. Brieba, Morten Grøtli, and **Alfredo Torres Larios**  
Departamento de Bioquímica y Biología Estructural, Instituto de Fisiología Celular, UNAM

17:00 – 17:30 Protein characterization and biological model development from mass spectrometry data  
**Robert Winkler**  
CINVESTAV Unidad Irapuato

17:30 – 18:00 Biophysical approaches to studying the regulation of gene expression  
**Kristina Marie Herbert**  
Departamento de Microbiología. Centro de Investigación Científica y de Educación Superior de Ensenada

## **Plenary Session 2**

Monday November 7, 2016

15:30 – 18:00

San Marcos Room II

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### **Neural plasticity: from molecules to circuits**

Chair: *Angélica Zepeda Rivera*

Instituto de Investigaciones Biomédicas, UNAM

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15:30 – 16:00 Cellular plasticity during neuronal differentiation and in the adult brain.

**Luis Fernando Covarrubias Robles**, Dulce María Arzate Vázquez, Gilda Guerrero Flores, Ana Karen Mojica Ávila, Gladys Mondragón Figueroa, Magdalena Guerra Crespo, Omar Collazo Navarrete

Instituto de Biotecnología, UNAM

16:00 – 16:30 Synaptic and homeostatic plasticity orchestrating the persistence of memory

**Martha L. Escobar Rodríguez**

División de Investigación y Estudios de Posgrado, Facultad de Psicología. UNAM

16:30 – 17:00 Neurogenesis and sexual behavior

**Raúl G. Paredes** and Wendy Portillo

Instituto de Neurobiología UNAM

17:00 – 17:30 Run for your neurons! Physical exercise and adult neurogenesis

**Carmen Vivar**

Laboratory of Neurogenesis and Neuroplasticity. Department of Physiology, Biophysics and Neuroscience, CINVESTAV

17:30 – 18:00 Neurogenesis as a potential mechanism of repair after brain damage

**Angélica Zepeda Rivera**

Instituto de Investigaciones Biomédicas, UNAM

### **Plenary Session 3**

Monday November 7, 2016

15:30 – 18:00

San Marcos Room III

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### **Fungal Molecular Biology**

Chair: *Alfredo Herrera Estrella*  
LANGEBIO CINVESTAV Irapuato

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15:30 – 16:00 Suppression of the extracellular ATP (eATP) triggered host defense response by the root endophytic fungus *Piriformospora indica*

**Shadab Nizam and Alga Zuccaro**

Max Planck Institute for Terrestrial Microbiology &University of Cologne, Germany

16:00 – 16:30 MAP kinase dynamics during cell-cell communication and fusion in *Neurospora crassa*

**André Fleißner**

Institut für Genetik, Technische Universität Braunschweig, Germany

16:30 – 17:00 The MAPK signaling pathways: new roles in fungal physiology

**Edgardo Ulises Esquivel Naranjo and Alfredo Herrera Estrella**

Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro

17:00 – 17:30 Phospholipid flippases and vesicle traffic during polarized growth

**Rosa R. Mouriño Pérez, Ivan Murillo Corona, Zachary Schultzhaus and Brian D. Shaw**

Department of Microbiology. Centro de Investigación Científica y Educación Superior de Ensenada

18:00 – 20:00 Poster Session 1

SB SYSTEMS BIOLOGY & BIOINFORMATICS  
B BASIC BIOCHEMISTRY  
OR OXYGEN REACTIVE SPECIES

## SYSTEMS BIOLOGY & BIOINFORMATICS

<b>SB-1</b>	<b>Annotation, phylogeny and quantitative RNA sequencing of the bean AUTOPHAGY family genes in mycorrhizal symbiosis.</b> Jessica Monserrat Aguilar, Kalpana Nanjareddy, Miguel Lara and Manoj Kumar Arthikala. Escuela Nacional de Estudios Superiores – León. UNAM
<b>SB-2</b>	<b>Global expression profiling reveals genetic networks associated with growth and development in TOR down regulated <i>Phaseolus vulgaris</i> roots.</b> Alma Leticia Aguirre, Kalpana Nanjareddy, Miguel Lara and Manoj Kumar Arthikala. Escuela Nacional de Estudios Superiores – León. UNAM
<b>SB-3</b>	<b>Evolutionary dynamics of microRNA regulatory networks.</b> Gilberto Alejandro Álvarez Canales, Luis Delaye, Cei Abreu Goodger. LANGEBIO, CINVESTAV Irapuato
<b>SB-4</b>	<b>Genomic analysis of bacterial DNA methylation and repair systems.</b> Dagoberto Armenta Medina, Carmen Gómez Eichelmann, Cei Abreu Goodger. Departamento de Biología. CINVESTAV Irapuato.
<b>SB-5</b>	<b>Revealing metagenomic microbial diversity using reference pan-genomes.</b> Hugo Rafael Barajas de la Torre, Luis David Alcaráz. Instituto de Ecología, UNAM
<b>SB-6</b>	<b>Testing the tomato root's microbiome assembly rules.</b> Hugo Rafael Barajas de la Torre, Luis David Alcaráz. Instituto de Ecología, UNAM
<b>SB-7</b>	<b>Species interactions mediated by small RNAs.</b> José Roberto Bermúdez Barrientos, Cei Abreu Goodger. LANGEBIO CINVESTAV Irapuato
<b>SB-8</b>	<b>De novo transcriptome sequencing by RNA-seq of an Asteraceae species to identify genes involved in the biosynthesis of secondary metabolites.</b> Génesis Vidal Buitimea Cantúa, Enrique Ramírez Chávez, Juan Vázquez Martínez, Jorge Molina Torres. CINVESTAV IPN Irapuato
<b>SB-9</b>	<b>Cell death pathways <i>in silico</i> model based on biochemical tuple spaces for self-organizing coordination.</b> Lilia Karina Cabrera Cosme, Maura Cárdenas García, Pedro Pablo González Pérez. Autonomous University of Puebla, Cell Physiology Laboratory, School of Medicine
<b>SB-10</b>	<b>Identification of Transcription Factor Binding Sites AraC/XylS-Type in <i>Escherichia coli</i> K-12 using a new Phylogenetic Footprinting pipeline.</b> Gieraldin Campos Lozada, Patricia MR Oliver Ocaño, María L Tabche Barrera, Teresa Romero Cortes, Víctor H Pérez España, Enrique Merino Pérez and Peralta Gil Martin. Instituto Tecnológico Superior del Oriente del Estado de Hidalgo
<b>SB-11</b>	<b>Systematic analysis of lifespan-epistasis effects in the budding yeast <i>Saccharomyces cerevisiae</i>.</b> Erika Viridiana Cruz Bonilla, Alexander de Luna Fors. CINVESTAV Irapuato
<b>SB-12</b>	<b>Structural analysis of MrpA subunit from Na+/H+ antiporter complex of the archaeon <i>Methanosarcina acetivorans</i>.</b> César Díaz Pérez, Alma Laura Díaz Pérez, Rafael Alejandro Veloz García, María Isabel García Vieyra, Patricia Castro Moreno, José Salud Rodríguez Zavala, Ricardo Jasso Chávez. Departamento de Ingeniería Agroindustrial. Campus Celaya. Universidad de Guanajuato
<b>SB-13</b>	<b>Deciphering potential determinants for exosomal miRNAs package.</b> Ricardo de Jesús Ehecatl Gómez Reyes, Kristina Marie Herbert. CICESE
<b>SB-14</b>	<b>Arbuscular mycorrhiza symbiosis induces a major transcriptional reprogramming of the common bean nutrient transporter families.</b> Brenda Mariana Gómez, Kalpana Nanjareddy, Miguel Lara and Manoj Kumar Arthikala. Escuela Nacional de Estudios Superiores, Unidad León. UNAM
<b>SB-15</b>	<b>Designing of a bioinformatic system for the 16S ribosomal sequences massive analysis.</b> Everardo Gutiérrez Millán, Gabriel Guillén Solís, Rosaura Aparicio Fabre, Claudia Díaz Camino. UPEMOR
<b>SB-16</b>	<b>Effect of stimulation with interleukin-10 on peripheral blood mononuclear cells: a bioinformatic analysis.</b> Juan Manuel Guzmán Flores, Edgar Iván López Pulido, Saúl Ramírez De los Santos. Centro Universitario de los Altos, Universidad de Guadalajara
<b>SB-17</b>	<b>Environmental gene-content homoplasy and evolution of <i>Bacillus</i>.</b> Ismael L Hernandez Gonzalez, Gabriel Moreno Hagelsieb, Gabriela Olmedo Alvarez. Departamento de Ingeniería Genética. CINVESTAV Irapuato
<b>SB-18</b>	<b>De Novo transcriptome assembly of telomerase-negative strains of <i>Ustilago Maydis</i>.</b> José Juan Jacinto Vázquez, Candelario Vázquez Cruz, Estela Anastacio Marcelino, Guillermo Manuel Horta Valerdi, Ma. Patricia Sánchez Alonso. Instituto de Ciencias. BUAP

<b>SB-19</b>	<b>Phylogenetic analysis of the chromate ion transporter (CHR) superfamily revisited.</b> Adriana Julián Sánchez, José Manuel Contreras Sánchez, Rosa I. Reyes Gallegos, Carlos Cervantes, Héctor Riveros Rosas. Departamento Bioquímica. Facultad de Medicina, UNAM
<b>SB-20</b>	<b>Comparative analysis of the protease sequence of <i>Totoaba macdonaldi</i>.</b> Ana Paola López Reyes Guerrero, Manuel Ignacio Carretas Valdez, Aldo Alejandro Arvizu Flores. Departamento de Investigación y Posgrado en Alimentos, Universidad de Sonora
<b>SB-21</b>	<b>Genome assembly and comparative genomics analysis of <i>Ca. Mycoplasma haemobos</i> strain INIFAP01, the first hemotrophic mycoplasma identified in Mexico.</b> Fernando Martínez Ocampo, Rosa Estela Quiroz Castañeda, Luis Fernando Lozano Aguirre Beltrán, Sergio Dario Rodríguez Camarillo, Itzel Amaro Estrada. CENID Parasitología Veterinaria. INIFAP
<b>SB-22</b>	<b>V2 promoter variant in silico analysis of human gene <i>ST3Gal4</i>.</b> Monterrosas Santamaría José Ricardo, Vallejo Ruiz Verónica, Reyes Leyva Julio, Milflores Flores Lorena. Escuela de Biología. BUAP
<b>SB-23</b>	<b>Constraint-based modeling in cervical cancer, a multiomics approach.</b> Felipe Muñoz Gonzalez, Osbaldo Resendis Antonio. Facultad de Medicina. Instituto Nacional de Medicina Genómica
<b>SB-24</b>	<b>Extracellular small RNAs during parasite-host communication.</b> Cesaré Ovando Vazquez, Franklin Chow, Georgios Koutsououlos, Tuhin Maity, Mark Blaxter, Julie Claycomb, Amy Buck, Cei Abreu Goodger. LANGEBIO CINVESTAV Irapuato
<b>SB-25</b>	<b>Molecular dynamics studies of <i>CssIV</i> scorpion β-toxin binding to the voltage gated Nav1.2.</b> Ana Estela Pérez Mejía, José Luis Velasco Bolom, Ramón Garduño Juárez. Instituto de Ciencias Físicas, UNAM
<b>SB-26</b>	<b>Analysis of the dynamic of deletions in mitochondrial DNA from human somatic cells.</b> Bertha Guadalupe Rueda Zarazúa, Alfredo Varela Echavarría, Jorge Tonatiuh Ayala Sumuano. Instituto de Neurobiología. UNAM
<b>SB-27</b>	<b>Transcriptomic analysis of the halophile adaptation responses of <i>Aspergillus caesiellus</i> in a lignocellulosic solid-state fermentation.</b> María del Rayo Sánchez Carbente, Yordanis Pérez Llano, Jorge Luis Folch Mallol, Ramón Batista García. Centro de Investigacion en Biotecnologia, Universidad Autónoma del Estado de Morelos
<b>SB-28</b>	<b>Functional conservation of neuronal microRNAs.</b> Gabriela Santos Rodríguez, Cei Abreu Goodger. LANGEBIO. CINVESTAV Irapuato
<b>SB-29</b>	<b>Transcriptional modification of <i>Fma1</i>, <i>Fma2</i> y <i>Pca1</i> genes in the model of chronological aging of <i>Schizosaccharomyces pombe</i>.</b> Patricia Leany Segundo Ibáñez, Olaf Rosas Galicia, Lourdes Millán Pérez Peña, Irma Herrera Camacho, Nora Hilda Rosas Murrieta. Instituto de Ciencias. BUAP
<b>SB-30</b>	<b>Genomic sequencing of <i>Herbaspirillum</i> sp. strain TQ07 and characterization of the metabolic pathway involved in chloranilic acid degradation.</b> Luis Gerardo Treviño Quintanilla, Itzel López Mendoza, Juan José Colín Salinas. Universidad Politécnica del Estado de Morelos
<b>SB-31</b>	<b>Pore-forming mechanism of the antimicrobial peptide Pandinin-2.</b> José Luis Velasco Bolom, Ramón Garduño Juárez. Instituto de Ciencias Físicas, UNAM
<b>SB-32</b>	<b>BIK Interacts with coding and non-coding regions of the Breast Cancer MDA-MB-231 cells.</b> Miguel Ángel Velázquez Flores, Karen Contreras Ayala, Juan Manuel Rodríguez Corona, Javier Torres López, Ruth Ruiz Esparza Garrido. Centro Médico Nacional Siglo XXI. IMSS

## BASIC BIOCHEMISTRY

<b>B-1</b>	<b>Towards an understanding of the mechanism of a microtubule-length regulator: the kinesin-8 Kip3.</b> Hugo Arellano Santoyo. Dana Farber Cancer Institute/Harvard Medical School. Howard Hughes Medical Institute
<b>B-2</b>	<b>Crystallization of copper chaperon LVATX from <i>Litopenaeus vannamei</i> (Penaeidae) in binding to different metals.</b> Arisbeth Guadalupe Almeida Juárez, Enrique Rudiño Piñera. Instituto de Biotecnología, UNAM

B-3	<b>Possible existence of microsomes in which takes place the degradation of polycyclic aromatic hydrocarbons.</b> <i>Jazmin Areli Álvarez Copado, Roberto Zazueta Sandoval. Universidad de Guanajuato</i>
B-4	<b>Effect of the pH on the capacity of iron-binding of chaperonin GroEL from <i>Helicobacter pylori</i>.</b> <i>Carlos Alberto Alvarez Librado, Alma Lidia Olivares Cervantes, Marco Antonio González López, Octavio Daniel Reyes Hernández, Norma Velázquez Guadarrama, Elisa Irene Azuara Liceaga, José de Jesús Olivares Trejo. Posgrado de Ciencias Genómicas. Universidad Autónoma de la Ciudad de México</i>
B-5	<b>Design of aptamers for the identification of human pathogen bacteria.</b> <i>Carlos Alberto Alvarez Librado, Dan Israel Zavala Vargas, María Elizabeth Álvarez Sánchez and José de Jesús Olivares Trejo. Posgrado de Ciencias Genómicas. Universidad Autónoma de la Ciudad de México</i>
B-6	<b>Identifying structural determinants of tranglycosidation function in the alpha-amylase enzyme family through residue contact analysis.</b> <i>Rodrigo Arreola Barroso, David Y. Salgado Rinquey, Gloria Saab Rincón. Instituto de Biotecnología, UNAM</i>
B-7	<b>Following the initial contacts of a mitochondrial protein: the NAC complex and the outer membrane proteins Sam37, Om14 and Tom70.</b> <i>María Clara Avendaño Monsalve, Ponce Rojas J. Carlos, Torres Quiroz Francisco, Jaimes Miranda Fabiola, Funes Soledad. Departamento de Genética Molecular, Instituto de Fisiología Celular, UNAM</i>
B-8	<b>Study of the effect of cytokinin-auxin crosstalk in somatic embryogenesis of <i>Coffea canephora</i>.</b> <i>Johny Avilez Montalvo, José Cetz Chel, Geovany Nic Can, Ariana Pérez Hernández, Ángela Kú González, Rosa Galaz Ávaloz, Víctor M. Loyola Vargas. Centro de Investigación Científica de Yucatán AC</i>
B-9	<b>Biochemical characterization <i>in vitro</i> of two novel organelar DNA polymerases of plants (POPs) from <i>Arabidopsis thaliana</i>.</b> <i>Noé Baruch Torres, Corina E Díaz Quezada, Luis G Brieba. LANGEBIO, CINVESTAV</i>
B-10	<b>Involvement of the Bcp1 protein in maturation of the pre-ribosomal 60S subunit, in the ribosomal biogenesis pathway in the yeast <i>Saccharomyces cerevisiae</i>.</b> <i>Arnulfo Bautista Santos, Nuria Victoria Sánchez Puig. Instituto de Química, UNAM</i>
B-11	<b>HSL esterases in fungi? Bioinformatic and biochemical characterization.</b> <i>Ramón Alberto Batista García, María del Rayo Sánchez Carbente, Ayixón Sánchez Reyes, Angela Escudero Garcia, Catalina Morales Herrera, Laura Inés Cuervo Soto, Leidys French Pacheco, Arline Fernández Silva, Carlos Amero, Edmundo Castillo and Jorge Luis Folch Mallol. UAEM</i>
B-12	<b>Comparative proteomics of amaranth species: Divergence in seed storage proteins and starch synthesis enzymes.</b> <i>Esaú Bojórquez Velázquez, Alberto Barrera Pacheco, Eduardo Espitia Rangel, Alfredo Herrera Estrella, Ana Paulina Barba de la Rosa. IPICyT</i>
B-13	<b>Biophysical properties of a new allelic variant of triosephosphate isomerase found in human prostate cancer cell line.</b> <i>Peniel Bustamante Villalobos, Valeria Guzmán Luna, Leticia Olvera Rodríguez, Gloria Saab Rincón. Univ. Juárez del Edo de Durango. Instituto de Biotecnología, UNAM</i>
B-14	<b>The Formation of the Supercomplex <i>b6c:caa3</i>when cytochrome <i>c550</i> is Overexpressed in <i>Bacillus subtilis</i>.</b> <i>Tecilli Cabellos Avelar, Emma Berta Gutiérrez Cirlos Madrid. Biomedical Unit Laboratory, FES Iztacala. UNAM</i>
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B-103	<b>The effect of the flavonoid nobiletin in the Akt signalling pathway and VEGF expression in the pharynx cancer FaDu cell line.</b> Alejandra Ruíz Romero, Gloria Gutiérrez Venegas. Laboratorio de Bioquímica. División de Estudios de Posgrado e Investigación. Facultad de Odontología, UNAM
B-104	<b>Dropout Students of biochemistry and molecular biology.</b> Yolanda Saldaña Balmori, Héctor Javier Delgadillo Gutiérrez. Facultad de Medicina, UNAM
B-105	<b>Regulatory role of ADP-PFK1 and FruBPase II on the gluconeogenesis/glycolysis fluxes in <i>Methanosarcina acetivorans</i>.</b> Michel Geovanni Santiago Martínez, Ricardo Jasso Chávez. Departamento de Bioquímica. Instituto Nacional de Cardiología "Ignacio Chávez"
B-106	<b>Maintenance of intracellular hypoxia and adequate heat shock response are essential requirements for pathogenicity and virulence of <i>Entamoeba histolytica</i>.</b> Fabiola Santos Ramos, Mario Nequiz Avendaño, Jaime Marcial Quino, Sergio Enríquez Flores, Yoalli Martínez Pérez, Erika Pineda Ramírez, Rusely Encalada Oregón, Nancy Guillén, Erika Luis García, Marisol Méndez Vázquez, Marco Gudiño Zayas, Edith Mendoza Tenorio, Emma Saavedra Lira, Ruy Pérez Tamayo and Alfonso Olivos García. Facultad de Medicina, UNAM

B-107	<b>Structural and functional characterization of an amaranth seed LEA Protein.</b> Alma Leticia Saucedo Yáñez, Eric Edmundo Hernández Domínguez, Daniel Alejandro Fernández Velasco, Ana Paulina Barba de la Rosa. División de Biología Molecular, IPICYT
B-108	<b>Small angle X ray Scattering (SAXS) studies of the low resolution structure of the ribosomal GTPAseEFL1, the SBDS protein and their complex.</b> Dritan Siliqi, Davide Altamura, Abril Gijsbers, Eugenio de la Mora, Cinzia Giannini, Teresa Sibillano, Michele Saviano, Nuria Sánchez Puig. Istituto di Cristallografia. Consiglio Nazionale delle Ricerche (CNR)
B-109	<b>The size of gold nanoparticles affects the antimicrobial activity.</b> José de Jesús Olivares Trejo, José Domingo Trujillo Casarreal and Norma Velázquez Guadarrama. Posgrado en Ciencias Genómicas, Universidad Autónoma de la Ciudad de México
B-110	<b>Curcumin inhibits the thioredoxin-glutathione reductase (TGR) from larva <i>Taenia crassiceps</i> (cysticerci)?</b> Rubén Solís Cruz, Alberto Guevara Flores, José de Jesús Martínez González, Juan Luis Rendón Gómez, Irene Patricia del Arenal Mena. Facultad de Medicina. UNAM
B-111	<b>Peroxisome/mitochondrial dynamics and development of <i>Podospora anserina</i> in a <i>fis1</i> deletion strain.</b> Harumi Takano Rojas, Jorge Luis Castillo Canizales, Leonardo Peraza Reyes. Instituto Potosino de Investigación Científica y Tecnológica, A.C., UNAM
B-112	<b>Purification of a type lectin protein from pericarp <i>Opuntia ficus-indica</i> that shown agglutination and cytotoxic effect.</b> Lizbeth Tehuitzin Acevedo, Juana Pileño García, Carlos César Patiño Morales, Javier Jiménez Hernández, Eneas Alejandro Chavelas Adame. Unidad Académica de Ciencias Químico Biológicas. Universidad Autónoma de Guerrero
B-113	<b>Probing the phosphoryl-group transfer routes in the ArcB dimer.</b> Juan Luis Terán Melo, Adrian Fernando Alvarez, Dimitris Georgellis. Departamento de Genética Molecular, Instituto de Fisiología Celular. UNAM
B-114	<b>Characterization and inhibition of Polyphenol oxidase from Hass avocado (<i>Persea americana</i>).</b> Zaira Illeana Tobías Juárez, Lorena Xolalpa Cueva Hugo Nájera Peña. Universidad Autónoma Metropolitana. Unidad Cuajimalpa
B-115	<b>Claudin-6, -7 and -9 transfected AGS cells induce Hsp-27, -40, -70 and -90 protein expression.</b> Priscila J. Torres Granados, María de la Luz Pérez Uscanga, Erika P. Rendón Huerta, Luis F. Montaño Estrada. Facultad de Medicina, UNAM
B-116	<b>Evaluation of cytotoxic, antioxidant and anti-inflammatory activity of essential oil and terpenes of <i>Satureja macrostema</i>.</b> Rafael Torres Martínez, Alejandra Hernández García, Alfredo Saavedra Molina, Joel Edmundo López Meza, Alejandra Ochoa Zarzosa and Rafael Salgado Garciglia. Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo
B-117	<b>Construction of variants of Cyt1A toxin from the <i>Bacillus thuringiensis</i> to migrate their toxicity to lepidopteran insects.</b> Mary Carmen Torres Quintero, Mario Soberón, Alejandra Bravo. Instituto de Biotecnología, UNAM
B-118	<b>IL-8 secreted by AGS cells modify transepithelial electrical resistance and leukocyte adhesion on HUVECs.</b> Jahaziel Caleb Tovar Mota, José Francisco Gallardo, Martín Gallardo, Luis Felipe Montaño Estrada, Erika Patricia Rendón Huerta. Facultad de Medicina, UNAM
B-119	<b>Dispensability of the [4Fe-4S] cluster in novel homologues of adenine glycosylase MutY.</b> Carlos H. Trasviña Arenas, Laura M. Lopez Castillo, Eugenia Sánchez Sandoval, Corina Díaz Quezada and Luis G. Brieba. Langebio. CINVESTAV. Irapuato
B-120	<b>Revealing the structural and energetics basis of ABL tyrosine kinase inhibition by target-directed drugs.</b> Mario Trejo Pérez, Roberto Cruz Castañeda, Ignacio Regla, Enrique García Hernández, Axel Luviano. Instituto de Química, UNAM
B-121	<b>Metabolomic study of <i>Lasiodiplodia theobromae</i>.</b> Carla Uranga Solis, Joris Beld, Anthony Mrse, Ivan Córdova Guerrero, Michael Burkart, Rufina Hernández Martínez. Centro de Investigación Científica y de Educación Superior de Ensenada
B-122	<b>Study of the NAC-mediated interactions between cytosolic ribosomes and Sam37 during mitochondrial protein import.</b> Miguel Gandi Valdés Dávila, Ponce Rojas José Carlos, Jaimes Miranda Fabiola & Funes Soledad. Instituto de Fisiología Celular, UNAM

B-123	<b>Evaluation of the Antimicrobial Activity of Components of the Venom of the Snake <i>Bothrops ammodytoides</i>.</b> Alexis J. Rodríguez Solís, Eduardo Vargas Salgado, Herlinda Clement Carretero, Gerardo A. Corzo Burguete, Adolfo R. De Roodt, Elba C. Villegas Villarreal. Centro de Investigación en Biotecnología, Universidad Autónoma del Estado de Morelos
B-124	<b>Mitochondrial training supercomplexes in <i>Ustilago maydis</i> cultivated with different carbon and nitrogen sources.</b> Deyamira Matuz Mares, Héctor Vázquez Meza, Juan Pablo Pardo Vázquez. Departamento de Bioquímica. Facultad de Medicina, UNAM
B-125	<b>In vitro import of subunit Atp6 of the ATP synthase into mitochondria of the chlorophyce an alga <i>Polytomella</i> sp.</b> Félix Vega de Luna, Miriam Vázquez Acevedo, Diego González Halphen. Instituto de Fisiología Celular, UNAM
B-126	<b>CatSper, a specific cation channel of sperm is involved in sperm chemotaxis in sea urchin.</b> Martín Velázquez Pérez, Héctor Ramírez, Adán Guerrero, Alberto Darszon, Carmen Beltrán. Facultad de Ciencias Biológicas. Universidad Autónoma del Estado de Morelos
B-127	<b>UMAG_02301 gene encoding a transcription factor is involved in the pathogenesis of <i>Ustilago maydis</i> in maize.</b> John Martin Velez Haro, Lorenzo Guevara Olvera, and José Ruiz Herrera. Instituto Tecnológico de Celaya. CINVESTAV Unidad Irapuato
B-128	<b>Purification and characterization of digestive trypsin-like and chymotrypsin-like proteases in the larger grain borer <i>Prostephanus truncatus</i> (Horn).</b> Viviana Villalobos Murillo, Jimena Meneses Plascencia, Alejandro Blanco Labra. CINVESTAV Unidad Irapuato
B-129	<b>Easy Expression and Purification of Histidine-tagged Bacteriophage T7 DNA Polymerase in a 1:1 complex with Thioredoxin.</b> Jesús G. Zendejas Sánchez, Corina E. Díaz Quezada Luis G. Brieba de Castro LANGEBIO. CINVESTAV Irapuato
B-130	<b>Physicochemical characterization of monomeric proteins with (<math>\beta/\alpha</math>)8-barrel topology: looking for unfolding reversibility.</b> Susana Vázquez Torres, Sergio Romero Romero. Daniel Alejandro Fernández Velasco. Facultad de Medicina UNAM
B-131	<b>Characterization of the hydrophobic subunits of the peripheral arm of the ATP synthase from the colorless alga <i>Polytomella</i> sp.</b> Lorenzo Sánchez Vásquez, Miriam Vázquez Acevedo, Francisco Javier de la Mora Bravo, Georges Dreyfus, Diego González Halphen. Instituto de Fisiología Celular, UNAM
B-132	<b>Cloning, optimization, expression and purification of the <math>\alpha</math>-glucosidase <i>Ruminococcus obeum</i>, to be used as a molecular target in the discovery of new antidiabetic drugs.</b> María Isabel Velázquez López and Martín González Andrade. Facultad de Medicina, UNAM
B-133	<b>Effects of Cu (II) and Zn (II) in HgD crystalline aggregation over time.</b> Arline Fernandez Silva, Lina Rivillas Acevedo, Liliana Quintanar Vera, Jonathan King, Carlos Amero Tello. Centro de Inv. Químicas. UAEM
B-134	<b>Effect of human alfa crystallin peptides in the human <math>\gamma</math>D-crystallin aggregation.</b> Hugo A. Gómez Uribe, Carlos Amero, Lina Rivillas. Laboratorio de Bioquímica y Resonancia Magnética Nuclear, Centro de Investigaciones Químicas, UAEM
B-135	<b>Spectroscopic study of Cu (II) binding to light chain 6aJL2-R24G and its effect on amyloid fiber formation.</b> Angel E. Peláez Aguilar, Carlos Amero, Lina Rivillas Acevedo. Centro de Investigación en Dinámica Celular, Instituto de Investigación en Ciencias Básicas y Aplicadas, UAEM
B-136	<b>Kinetic characterization of paralogous enzymes in <i>Saccharomyces cerevisiae</i> Bat1 and Bat2: branched aminoacid aminotransferases.</b> Beatriz Aguirre López, José Carlos Campero Basaldúa, Eréndira Rojas, Dariel Márquez, Maritriini Colón, Lina Riego, Javier Montalvo and Alicia Gonzalez. Instituto de Fisiología Celular, UNAM
B-137	<b>Purification and characterization of Alt1 and Alt2 of <i>Saccharomyces cerevisiae</i>: Study of structural divergence.</b> Rojas Ortega Eréndira, Aguirre López Beatriz, Granados Avalos Estefany, González Andrade Martín, Guerrero Miguel Ángel, Reyes Vivas Horacio, Tuena Sangri Marietta, González Manjarrez Alicia. Instituto de Fisiología Celular, UNAM
B-138	<b>Identification of an-arginine endoplasmic reticulum (ER) retention motif and induction of oocyte maturation by a G-protein activated potassium channel.</b> Claudia Iveth Rangel García, Díaz Bello Beatriz, Salvador Carolina, Escobar Laura. Facultad de Medicina, UNAM

B-139	<b>Regulation of the hyperpolarization-activated cyclic nucleotide-gated HCN channels by the serum and glucocorticoid-inducible kinase 1 (SGK1).</b> Erika Gutiérrez Vásquez, Teresa Padilla Flores, Carolina Salvador Hernández, Laura I Escobar Pérez. Facultad de Medicina, UNAM
B-140	<b>Cloning, Expression and Kinetics of the Enzyme Amino Aldehyde Dehydrogenase PA5312 of <i>Pseudomonas aeruginosa</i>.</b> Yudy Vanesa Cardona Cardona, Javier Carrillo Campos, Carlos Mújica Jiménez, Rosario A. Muñoz Clares. Facultad de Química, UNAM

## OXYGEN REACTIVE SPECIES

OR-1	<b>Cisplatin induced damage in LLC-PK1 cells: cytoprotective effect of Morin without interfering with cisplatin toxicity on HTB-4 cells.</b> Claudia Bello Álvarez, Ángela Patricia Moreno Londoño, José Pedraza Chaverri. Facultad de Química, UNAM
OR-2	<b>Has the heterologous expression of <i>Debaryomyces hansenii</i> catalase T any effect in <i>Saccharomyces cerevisiae</i> chronological life span?</b> Román Alfonso Castillo Díaz, Ileana de la Fuente Colmenares, Luisa Alba Lois, Víctor Valdés López, Viviana Escobar Sánchez, Claudia Segal Kischinevzky. Facultad de Ciencias, UNAM
OR-3	<b>Measurement of markers lipid peroxidation (MDA and 4-HDA) in blood serum in response to stressful conditions in students.</b> Iván Cesar Arteaga, Leticia García Albarrán, Raúl Ávila Sosa Patricia Aguilar Alonso. Facultad de Ciencias, BUAP
OR-4	<b>Evaluation of tumour necrosis factor alpha (TNF-alpha) and nitric oxide gene expression in liver's rats fed with <i>Spirulina platensis</i> and subjected to endotoxic shock.</b> Luis Carlos Compartan Moreno, Sandra Fabiola Velasco Ramírez, Ramírez Anguiano Ana Cristina, Cortes Romero Celso, Pacheco Moisés Fermín Paul, González Ortiz Luis Javier, Sánchez Peña María Judith, Bitzer Quintero Oscar Kurt, Rosales Rivera Lizet Yadira, Hilda Luna Zaizar, Gilberto Velázquez Juárez. Centro Universitario de Ciencias Exactas e Ingenierías, Universidad de Guadalajara
OR-5	<b>Revealing the role of selective mitochondrial autophagy in yeast longevity.</b> Francisco Daniel Dávila Alemán, Soledad Funes, Alfredo Herrera Estrella, Alexander de Luna. Langebio, CINVESTAV Irapuato
OR-6	<b>Expression analysis of <i>Debaryomyces hansenii</i> catalase T in <i>Saccharomyces cerevisiae</i> as host.</b> Ileana de la Fuente Colmenares, Román Castillo Díaz, Viviana Escobar Sánchez, Luisa Alba Lois, Víctor Valdés López and Claudia Segal Kischinevzky. Facultad de Ciencias, UNAM
OR-7	<b>Induction of Class III peroxidase secretion from maize scutellum in early postgermination in relation with the season of the year.</b> David Manuel Díaz Pontones, Claudia Ponce Sánchez, José Isaac Corona Carrillo. Departamento de Ciencias de la salud, Universidad Autónoma Metropolitana Iztapalapa
OR-8	<b>Relationship between enzymatic and non-enzymatic antioxidants with muscle mass loss in the perimenopausal period.</b> Oswaldo Daniel García Anaya, Martha Asunción Sánchez Rodríguez, Ixel Venecia González Herrera, Elsa Correa Muñoz, Víctor Manuel Mendoza Núñez. Facultad de Estudios Superiores Zaragoza, UNAM
OR-9	<b>Iron mediated-ISCP system of oxidative damage and mitochondrial dysfunction in <i>Saccharomyces cerevisiae</i>.</b> Mauricio Gómez Gallardo, Luis Alberto Sánchez Briones, Alma Laura Díaz Pérez, Christian Cortes Rojo and Jesús Campos García. Instituto de Investigaciones Químico Biológicas, Universidad Michoacana de San Nicolás de Hidalgo.
OR-10	<b>SRX1 encodes a sulfiredoxin required to support the oxidative stress in <i>Candida glabrata</i>.</b> Gutiérrez Escobedo Ma. Guadalupe, Nájera Martínez Minerva, Castaño Navarro Irene Beatriz and De Las Peñas Nava Alejandro. IPICYT
OR-11	<b>Thioredoxin-glutathione reductase is an ancestral enzyme in the Animal Kingdom. An evolutionary proposal about its importance in the antioxidant systems in animals.</b> José de Jesús Martínez González, Zurisadai Miguel Muñoz González, Alberto Guevara Flores, Juan Luis Rendón Gómez, Patricia del Arenal Mena. Facultad de Medicina, UNAM

<b>OR-12</b>	<b>Effect of aged garlic extract on the level of reactive oxygen species and phosphorylation of AMPK in muscle tissue of diabetic rats.</b> Juan Miguel Mendoza Bello, Martha Isela Barragán Bonilla, Gloria Fernández Tilapa, Mónica Espinoza Rojo. Laboratorio de Investigación en Biología Molecular y Genómica, Universidad Autónoma de Guerrero
<b>OR-13</b>	<b>Preliminary phytochemical analysis of Guácima (<i>Guazuma ulmifolia</i> Lam.) steams, seeds and leafs.</b> Diana Isabel Montoya Salazar, Paulina Elizabeth Torres Galindo, Alejandro Moreno López, Erika Guadalupe Medina Vega, Luis Carlos Compartan Moreno, Vania Montserrat Salazar Camarillo, Daniel Rogelio Flores Mendoza, José de Jesús Luna Díaz, Hilda Luna Zaizar, Ana Cristina Ramírez Anguiano, Gilberto Velázquez Juárez, Sandra Fabiola Velasco Ramírez. Centro Universitario de Ciencias Exactas e Ingenierías, Universidad de Guadalajara
<b>OR-14</b>	<b>Isoliquiritigenin attenuates cisplatin induced proximal tubule cell death.</b> Ángela Patricia Moreno Londoño, Claudia Bello Álvarez, José Pedraza Chaverri. Facultad de Química, UNAM
<b>OR-15</b>	<b>Computational Study of Chemical Reactivity in Antioxidant Systems.</b> Zurizadai Miguel Muñoz González, Felipe Aparicio Platas. Universidad Autónoma Metropolitana
<b>OR-16</b>	<b>Redox balance in the interaction of <i>Trichoderma Arabidopsis</i>, role of TaTrx2 thioredoxin.</b> Alma María de Jesús Ortega Olmos, Paulina Guzmán Guzmán, Luis Cárdenas Torres, Vianey Graciela Olmedo Monfil. Universidad de Guanajuato
<b>OR-17</b>	<b>Functional Nox4 is required for development of progressive motility in spermatozoa of guinea pig.</b> Ortiz García Cesar Ismael, Roa Espitia AL, Hernández González Enrique O. CINVESTAV Zatenco
<b>OR-18</b>	<b>DEND-CUR-(G2)-OH, a new synthetic compound derivate of curcumin, turns off the overexpression of Nrf2 and causes cellular death by production of reactive oxygen species and autophagic activation on C6 glioma cells.</b> Alma Teresa Pérez González, Martín Landeros Gálvez, Mario Israel Pérez Padrón, Patricia Guevara Salazar, Fernando Belmont Bernal, Patricia Guadarrama Acosta, Irma Gabriela González Herrera. Instituto Nacional de Neurología y Neurocirugía
<b>OR-19</b>	<b>Effect of <i>Moringa oleifera</i> on kinetic parameters of diabetic liver catalase.</b> Karla Giselle Reyes Moreno, Mónica A Valdez Solana, Jorge A Sosa Gutiérrez, Ulrik H Pedroza Dávila, María A Sánchez Muñoz, Edson D. Mata Guerra, Erick Sierra Campos. Universidad Juárez del Estado de Durango
<b>OR-20</b>	<b>Time-dependent and tissue-specific changes in redox state and oxidative stress during fasting.</b> Pedro Rojas Morales, Angélica Saraí Jiménez Osorio, Edilia Tapia, Laura Gabriela Sánchez Lozada, Diana Barrera Oviedo, Omar Noel Medina Campos, José Pedraza Chaverri. Facultad de Química, UNAM
<b>OR-21</b>	<b>Hormone therapy decreases oxidative stress in postmenopausal women with metabolic syndrome.</b> Ana Karen Ruiz Rodríguez, Martha A. Sánchez Rodríguez, Mariano Zacarías Flores, Víctor Manuel Mendoza Núñez. Facultad de Estudios Superiores Zaragoza, UNAM
<b>OR-22</b>	<b>Analysis of the antioxidant activity of the hexanic extract of <i>Eryngium carlineae</i>, <i>in vitro</i> and in <i>Saccharomyces cerevisiae</i> as biological model.</b> Donovan J Peña Montes, Jorge A Mejía Barajas, Mónica Clemente Guerrero, Salvador Manzo Avalos, Rafael Salgado Garciglia, Christian Cortés Rojo, Ruth Noriega Cisneros, Alfredo Saavedra Molina. Instituto de Investigaciones Químico Biológicas, Universidad Michoacana de San Nicolás de Hidalgo
<b>OR-23</b>	<b>Antioxidant activity of bioactive compounds present in the organic waste of the insect <i>Ulomooides dermestoides</i>.</b> Vania Montserrat Salazar Camarillo, Daniel Rogelio Flores Mendoza, José de Jesús LunaDíaz, Ana Cristina RamírezAnguiano, Gilberto Velázquez Juárez, José Luis Navarrete Heredia, Sandra Fabiola Velasco Ramírez. Chemistry department, Universidad de Guadalajara
<b>OR-24</b>	<b>Resveratrol effect in cardiomyocytes during aging process in rats.</b> Jesús Emiliano Toscano Jiménez, Rubén Ávalos López, Addí Rhode Navarro Cruz, Obdulia Vera López, Leticia García Albarán Alfonso, Daniel Diaz Fonseca, Samuel Treviño Mora, Patricia Aguilar Alonso. Facultad de Ciencias Químicas, Benemérita Universidad Autónoma de Puebla

*Tuesday*

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**8:30 – 10:30 Plenary Lectures**

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8:30 – 9:30 DNA topology and the regulation of transcription  
**David Levens**  
National Cancer Institute, Bethesda, Maryland, USA

Chair: *Mario Zurita*  
Instituto de Biotecnología, UNAM

9:30 – 10:30 Neural coding of subjective sensory experience and uncertainty of perceptual decisions  
**Ranulfo Romo**  
El Colegio Nacional & Instituto de Fisiología Celular, UNAM

Chair: *Miguel Lara Flores*  
Instituto de Biología, UNAM

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10:30 – 11:00 Coffee break  
Foyer San Marcos Room

## Concurrent Sessions

Tuesday November 8, 2016

11:00 – 13:30	4. Microbiology & Viruses  San Marcos One Room	5. Basic Biochemistry  San Marcos Two Room	6. Genetic, Genetic Regulation & Epigenetic  San Marcos Three Room
	Chair: Gonzalo Izaguirre University of Illinois at Chicago	Chair: Guadalupe Espín Instituto de Biotecnología, UNAM	Chair: Juan Miranda Ríos Instituto de Investigaciones Biomédicas. UNAM
11:00-11:20	<b>Characterization of the antimicrobial activity of a recombinant 110-kDa membrane protein produced by <i>Pediococcus acidilactici</i> ATCC 8042.</b> Paola Barbosa González, Israel García Cano Amelia Farrés. Facultad de Química, UNAM	<b>Pharmacological and Functional Characterization of the Endogenous LPA1/3 Receptors in A594 Cells.</b> Gabriel Carmona Rosas, M. Teresa Romero Ávila, Marco Alfonzo Méndez, J. Adolfo García Sáinz. Instituto de Fisiología Celular, UNAM	<b>The CDK8 module of Mediator controls vegetative phase change in <i>Arabidopsis thaliana</i>.</b> Manuel Buendía Monreal, Stewart Gillmor. Langebio. CINVESTAV Irapuato
11:20-11:40	<b>Effect of immunomodulatory molecules on the gene expression of <i>Staphylococcus aureus</i> virulence factors: implications during bacterial internalization into bovine mammary epithelial cells.</b> Minerva Frutis Murillo, Marcelo Alejandro Sandoval Carrillo, Nayeli Alva Murillo, Alejandra Ochoa Zarzoza, Joel Edmundo López Meza. Facultad de Medicina Veterinaria y Zootecnia, Universidad Michoacana de San Nicolás de Hidalgo	<b>The crosstalk between several posttranslational modifications controlled the transcriptional activity of delta lactoferrin.</b> Adelma Escobar Ramírez, Anne Sophie Vercoutter Edouart, Isabelle Huvent, Marlène Mortuaire, Tony Lefebvre and Annick Pierce. CNRS-Université des Sciences et Technologies de Lille, IFR	<b>Identification of physiological and molecular responses associated to abscisic acid under hydric stress in a new model of plant <i>Marchantia polymorpha</i>.</b> Damaris Godínez Vidal, Alejandra Alicia Covarrubias Robles, and José Luis Reyes Taboada. Instituto de Biotecnología, UNAM
11:40-12:00	<b>Cockatiel (<i>Nymphicus hollandicus</i>) gut microbiomes, bacterial inhabitants of a worldwide distributed pet.</b> Apolinar M Hernández Gómez, Luis David Alcaráz, Mariana Peimbert Universidad Autónoma Metropolitana. Unidad Cuajimalpa	<b>Inherent conformational Flexibility of F1-ATPase α-Subunit.</b> Enrique García Hernández, Otto Hahn Herrera, Guillermo Salcedo Xavier Barril. Instituto de Química, UNAM	<b>Evaluation of miR-196a in the development and progression of cervical cancer.</b> Yahir Alberto Loissell Baltazar, Oliver Millán Catalán, Abraham Pedroza Torres, Jorge Francisco Cerna Cortés, Carlos Pérez Plasencia. Instituto Nacional de Cancerología
12:00-12:20	<b>Phenotypic plasticity of <i>Bacillus</i> isolates from Coahuila, Mexico.</b> Hurtado Barbosa Enrique, Diana Fabiola Díaz Jiménez, Diana Guadalupe Tapia García and Gabriela Olmedo Álvarez. CINVESTAV Irapuato	<b>Single molecule measurements of kinesin dynamics and DNAprotein interactions.</b> Braulio Gutiérrez Medina. IPICYT	<b>Characterization of cis-elements that negatively regulate transcription of EPA genes through silencing proteins of <i>Candida Glabrata</i>.</b> Eunice López Fuentes, Irene Castaño. IPICYT

	<b>4 Microbiology &amp; Viruses</b>  <b>San Marcos One Room</b>	<b>5 Basic Biochemistry</b>  <b>San Marcos Two Room</b>	<b>6 Genetic, Genetic Regulation &amp; Epigenetic</b>  <b>San Marcos Three Room</b>
	Chair: <i>Gonzalo Izaguirre</i> University of Illinois at Chicago	Chair: <i>Guadalupe Espín</i> Instituto de Biotecnología, UNAM	Chair: <i>Juan Miranda Ríos</i> Instituto de Investigaciones Biomédicas. UNAM
12:20-12:40	<b>Proprotein Convertase Selectivity in the Activation of the Human Papilloma Virus.</b> <i>Gonzalo Izaguirre.</i> University of Illinois at Chicago.	<b>In vivo detection of compounds from plants by mass spectrometry using low-temperature plasma (LTP) ionization.</b> <i>Sandra Martínez Jarquín, Humberto Herrera Ubaldo, Stefan De Folter, Robert Winkler.</i> CINVESTAV Irapuato	<b>Regulatory divergence in paralogous genes ALT1 and ALT2: Rtg3-Nrg1-Gln3 negative hybrid complex regulator modulates transcriptional repression</b> <i>Daniel Márquez, Hugo Hernández, James González, José Carlos Campero Basaldúa and Alicia González.</i> Instituto de Fisiología Celular, UNAM
12:40-13:00	<b>Influence of resveratrol in the chronological life span of <i>Saccharomyces cerevisiae</i>.</b> <i>Luis Alberto Madrigal Pérez, Ivanna Karina Olivares Marín, Lillian Camacho Torres, Juan Carlos González Hernández, Gerardo M. Nava and Minerva Ramos Gómez</i> Instituto Tecnológico Superior de Ciudad Hidalgo	<b>Hsp90α and Hsp90β are differentially expressed during the anti-proliferative and anti-apoptotic effect of the 17-DMAG inhibitor and thus dictate the treatment resistance of prostate cancer cell lines.</b> <i>Javier Octavio Mejía Hernández, José Eduardo Pérez Aquino, Luis Alonso Herrera Montalvo, Carlo César Cortés González.</i> Unidad de Investigación Biomédica en Cáncer del IIB-UNAM	<b>Selection &amp; validation of housekeeping genes and differential expression of stress related genes in <i>Debaryomyces hansenii</i> subjected to osmotic stress.</b> <i>Diana Julieta Martínez Pérez, Viviana Escobar Sánchez, Víctor Valdés López, Luisa Alba Lois and Claudia Segal Kischinevzky.</i> Facultad de Ciencias, UNAM
13:00-13:20	<b>The microbiome of CAM plants: diversity and functional strategies in drylands.</b> <i>Laila Pamela Partida Martínez, Damaris Desgarennes, Citlali Fonseca García, Devin Coleman Derr, Víctor M. Flores Núñez, David A. Camarena Pozos, Etzel Garrido, Axel Visel, Susannah G. Tringe.</i> Departamento de Ingeniería Genética, CINVESTAV Irapuato	<b>Light chain amyloidosis: from immunoglobulin unfolding to amyloid-like protofibrils.</b> <i>Gilberto Valdés García, César Millán Pacheco, Nina Pastor.</i> Centro de Investigación en Dinámica Celular, Universidad Autónoma del Estado de Morelos	<b>Biochemical characterization of the putative protein Rad51 from <i>Milnesium tardigradum</i></b> <i>Mariana Lucía Martínez Rodríguez, Guadalupe Ortega Pierres, Rosa María Bermúdez Cruz.</i> CINVESTAV Zacatenco

13:30 – 15:30 Lunch

## **Plenary Session 4**

Tuesday November 8, 2016

15:30 – 18:00

San Marcos Room I

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### **New approaches on the study of bacteria**

Chair: *Gloria Soberón*

Instituto de Investigaciones Biomédicas, UNAM

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15:30 – 16:00 Insect endosymbionts: bacteria or organelles?

**Esperanza Martínez Romero**, Tabita Shamayim Ramírez Puebla, Mónica Rosenblueth, Tania Rosas Pérez, Julio Martínez Romero, Arturo Vera Ponce León, Luis Servín Garcidueñas, Ernesto Ormeño Orrillo  
Center for Genomic Sciences, UNAM

16:00 – 16:30 Lessons on genomic plasticity from bacteria from microbial communities

**Gabriela Olmedo Álvarez**  
Ingeniería Genética, CINVESTAV Unidad Irapuato

16:30 – 17:00 Different coats for different challenges: adjusting the bacterial membrane to distinct environments

**Otto Geiger**, Diana X. Sahonero Canavesi, Lourdes Martínez Aguilar, Christian Sohlenkamp, and Isabel M. López Lara  
Centro de Ciencias Genómicas, Universidad Nacional Autónoma de México

17:00 – 17:30 Evolution of mitochondria: when, where and from which bacteria?

**Mauro Degli Esposti**  
Italian Institute of Technology, Genoa, Italy

17:30 – 18:00 Are essential genes always part of the core genome?

**Gloria Soberón Chávez**, Enrique Martínez Carranza, Luis Servín González, Hugo Barajas, Luis David Alcaráz  
Instituto de Investigaciones Biomédicas, UNAM

## Plenary Session 5

Tuesday November 8, 2016

15:30 – 18:00

San Marcos Room II

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### Biochemistry and Plant Molecular Biology

*"In Memoriam Dr. Federico Sánchez Rodríguez"*

Chair: *Jean Phillippe Vielle*  
LANGEBIO CINVESTAV Irapuato

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- 15:30 – 16:00 An autophagy-related kinase is essential for *Phaseolus vulgaris* symbiosis with both *Rhizobium* and arbuscular mycorrhizal fungi

Georgina Estrada Navarrete, Neftaly Cruz Mireles, Ramiro Lascano, Xóchitl AlvaradoAffantranger, Alejandra Hernández, Aarón Barraza, Juan E. Olivares, Manoj Kumar Arthikala, Luis Cárdenas, **Carmen Quinto** and Federico Sánchez Biología Molecular de Plantas. Instituto de Biotecnología, UNAM

- 16:00 – 16:30 Origin and genome shaping of common bean, from uncovering its closest sister species to its domestication in America

**Alfredo Herrera Estrella**, Martha Rendón Anaya, Josaphat M. Montero Vargas, Soledad Saburido Álvarez, Anna Vlasova, Salvador Capella Gutierrez, José Juan Ordaz Ortiz, Luis Delaye Arredondo, Toni Gabaldón, Paul Gepts, Robert Winkler, Roderic Guigó, Alfonso Delgado Salinas  
LANGEBIO CINVESTAV Irapuato

- 16:30 – 17:00 Multidisciplinary Research Needed for Sustainability of Global Phosphorus

**C.P. Vance**, J.J. Elser, W.R. Scheible  
Department of Agronomy and Plant Genetics, University of Minnesota, St. Paul, MN

- 17:00 – 17:30 Orchid diversity in México

**Salazar Gerardo A**, Hágster Eric, Solano Gómez Rodolfo, Huerta Espinoza Héctor  
Departamento de Botánica, Instituto de Biología, UNAM

## Plenary Session 6

Tuesday November 8, 2016

15:30 – 18:00

San Marcos Room III

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### Signal Transduction

Chair: *Roberto Sánchez Olea*

Instituto de Física, UASLP

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15:30 – 16:00 Gpn1 and Gpn3, a shared adventure

**Roberto Sánchez Olea** and Mónica R. Calera

Instituto de Física, Universidad Autónoma de San Luis Potosí

16:00 – 16:30 Regulation of the innate immune response of the intestinal epithelial cells by PI3K/Akt signaling during colitis

**Porfirio Nava**, Antonio Hernández Trejo, Itzel Gutierrez Martinez, Aurora Candelario Martínez, Carolina Serrano, Omar E. Fernández Vargas, Michael Schnoor and Nicolás Villegas Sepulveda

Department of Physiology, Biophysics, and Neurosciences. CINVESTAV. Zácatenco

16:30 – 17:00 Functional interaction of hypoxia-inducible factors and autophagy mediates drug resistance in colon cancer cells.

**Martha Robles Flores**, Abril Saint Martin and M. Cristina Castañeda Patlán

Department of Biochemistry, Faculty of Medicine, UNAM

17:00 – 17:30 EMT and migration in ovarian carcinoma cells are regulated by UTP and adenosine.

**Francisco Gabriel Vázquez Cuevas**, Angélica Sofía Martínez Ramírez and Mauricio Díaz Muñoz

Departamento de Neurobiología Celular y Molecular. Instituto de Neurobiología, UNAM

17:30 – 18:00 G-proteins regulate mitotic spindle formation

**Guadalupe Reyes Cruz**, Misael Neri Dionisio Vicuña, Tania Yareli Gutiérrez López and José Vázquez Prado

Departments of Cell Biology. CINVESTAV. Zácatenco

18:00 – 20:00 Poster Session 2

BT BIOTECHNOLOGY

M MEDICINE, HEALTH AND NUTRITION

20:00

Bussiness Session – SMB

## BIOTECHNOLOGY

<b>BT-1</b>	<b>Industrial interest exoenzymes production by acidometalophilic bacteria isolated from oxidized mine tailings.</b> José Luis Aguirre Noyola, Gustavo Cuaxinque Flores, José Daniel Chávez González, Oscar Talavera Mendoza, Yanet Romero Ramírez, Jeiry Toribio Jiménez. Universidad Autónoma de Guerrero
<b>BT-2</b>	<b>Interaction proteomics of Op14-3-3mu protein of <i>Opuntia ficusindica</i>.</b> Ana Paulina Barba de la Rosa, Eric Edmundo Hernández Domínguez, Abraham Escobedo Moratilla, Alberto Barrera Pacheco. Biomedicina, Instituto Potosino de Investigación Científica y Tecnológica A.C.
<b>BT-3</b>	<b>Study of expression of pvdS and csbC genes in <i>Azotobacter vinelandii</i>.</b> Thalía Barrientos Millán, Liliana López Pliego, Miguel Castañeda Lucio. Centro de Investigaciones en Ciencias Microbiológicas. Benemérita Universidad Autónoma de Puebla
<b>BT-4</b>	<b>Partial characterization of antimicrobial substances produced by <i>Lactobacillus paracasei</i> KSI.</b> Juan Carlos Benítez Serrano, Laura Martínez Pérez, Azarel Ruíz Román, Ricardo Carrasco Torres, Nora Hilda Rosas Murrieta, Eduardo Miguel Brambila Colombres, Rigoberto Hernández Castro, Mónica Rosales Pérez, Patricia Aguilar Alonso. Benemérita Universidad Autónoma de Puebla
<b>BT-5</b>	<b>Characterization of mutant PilR<sub>D53N</sub> in the two component system PilS-PilR of <i>Geobacter sulfur reducens</i> and its relationship with the electron transfer.</b> Xadeni Burgos Gámez, Alberto Hernández Eligio y Katy Juárez López. Instituto de Biotecnología, UNAM
<b>BT-6</b>	<b>Micropropagation of <i>Mammillaria rhodantha</i> in temporary immersion system.</b> Juan Carlos Camargo Tavares, Lisset Herrera Isidrón, Héctor Gordon Núñez Palenius. Unidad Politécnica Interdisciplinaria de Ingeniería Campus Guanajuato (UPIIG)
<b>BT-7</b>	<b>Production and purification of the leucin-aminopeptidase ysplI produced in the yeast <i>Pichia pastoris</i>.</b> Lorena Cardona Fuentes, Nora Rosas Murrieta, Lourdes Millán Pérez Peña, Irma Herrera Camacho. Centro de Química ICUAP. BUAP
<b>BT-8</b>	<b>Interaction between Bcl-2 and Bax proteins.</b> Caro Gómez Luis A, Vique Sánchez José L, Mixcoha Hernández Edgar, Rosas Trigueros Jorge L, Benítez Cardoza Claudia G, Zamorano Carrillo Absalom. Laboratorio de Bioquímica y Biofísica Computacional, ENMH, Instituto Politécnico Nacional
<b>BT-9</b>	<b>Central nervous systems effects of nanoparticles administered orally.</b> Anahi Chavarria Krauser, Claudia Meza López y Olguín, Esperanza García, Gerardo Andrés Vega Rosas, Sandra Romero Alvarado, Fanny García Cruz. Facultad de Medicina, UNAM
<b>BT-10</b>	<b>Determination of growth kinetic parameters of the plant pathogen <i>Ralstonia solanacearum</i>.</b> María Inés Chávez Bejar, José Luis Mendoza Porcayo, Jesús Hernández Romano. Universidad Politécnica del Estado de Morelos
<b>BT-11</b>	<b>Heavy metal-resistance profile of diazotrophic bacteria isolated from root of <i>Acacia farnesiana</i>(L) Willd that grow in acidic mine tailings.</b> José Daniel Chávez González, José Luis Aguirre Noyola, Néstor Daniel García Moreno, Gustavo Cuaxinque Flores, Yanet Romero Ramírez, Oscar Talavera Mendoza, Jeiry Toribio Jiménez. Universidad Autónoma de Guerrero
<b>BT-12</b>	<b>Hydrogen production by strain G088 psicrófilic using a dark fermentation process from agro-industrial waste.</b> Sergio Cisneros de la Cueva, Abraham M. Vidal Limón, Cecilia Lizeth Álvarez Guzmán, Víctor E. Balderas Hernández, Antonio De León Rodríguez. Instituto Potosino de Investigación Científica y Tecnológica, A.C.
<b>BT-13</b>	<b>Effect of textile dyes on growth of <i>Pleurotus ostreatus</i> and production of dye peroxidase.</b> Jorge Luis Cuamatzi Flores, Soley Berenice Nava Galicia, Edgardo Ulises Esquivel Naranjo, Martha Dolores Bibbins Martínez. Centro de Investigación en Biotecnología Aplicada (CIBA IPN Tlaxcala)
<b>BT-14</b>	<b>Chlorophyll A extraction from <i>Arthrospira platensis</i> and evaluation of its activity as photosensitizing agent in <i>Staphylococcus aureus</i>.</b> Brenda Gisella Curiel Olaue, Margarita Cid Hernández, Raúl Ricardo Quiñones López, Fermín Paúl Pacheco Moisés, Gilberto Velázquez Juárez, Sandra Fabiola Velasco Ramírez, Fernando Antonio López Dellamary Toral, Ricardo Manríquez González, Ana Cristina Ramírez Anguiano. Universidad de Guadalajara

<b>BT-15</b>	<b>Functional analysis of a red-far red light photoreceptor in the filamentous fungus <i>Trichoderma atroviride</i>.</b> <i>Vincent Anthony Czarnowski Corona, Alfredo Herrera Estrella, Edgardo Ulises Esquivel Naranjo.</i> Facultad de Ciencias Naturales, Universidad Autónoma de Querétaro
<b>BT-16</b>	<b>Antagonistic potential of bacteria isolated from agricultural soils in the state of Nayarit against pathogenic fungi of agronomic importance.</b> <i>Zulma Carolina Díaz Armenta, Octavio Jonathan Cambero Campos, Carlos Rubén Carbajal Cazola, Adela Yolanda Bueno Durán, Jackeline Lizzeta Arvizu Gómez.</i> Universidad Autónoma de Nayarit
<b>BT-17</b>	<b>Crecimiento de <i>Pleurotus ostreatus</i> ATCC 32783 y actividad de la casa intracelular desarrollado a diferente pH inicial de desarrollo en fermentación líquida.</b> <i>Rubén Díaz Godínez, Carmen Sánchez, Gerardo Díaz Godínez.</i> Centro de Investigación en Ciencias Biológicas, Universidad Autónoma de Tlaxcala
<b>BT-18</b>	<b>Streptomycin detection in wastewater by dot blot.</b> <i>Julieta Domínguez Soberanes, Eva M. Salinas Miralles, Juan Jáuregui Rincón, Ivonne Chaides Zuñiga, Illeana E. Medina Ramírez, Norma A. Chávez Vela.</i> Centro de Ciencias Básicas, Universidad Autónoma de Aguascalientes
<b>BT-19</b>	<b>Biopreservation of food pork ready to eat meat by lactic acid bacteria.</b> <i>Julieta Domínguez Soberanes, Norma A. Chávez Vela, Héctor B. Escalona Buendía, Gabriela M. Rodríguez Serrano.</i> Universidad Panamericana. Campus Aguascalientes
<b>BT-20</b>	<b>Identification of structural genes of enterocin 29α and enterocin 29β in the operon of the enterocin A produced by the strain <i>Enterococcus faecium</i> MXVK29.</b> <i>Edson Escamilla Martínez, Álvarez Cisneros YM, Fernández FJ, Ponce Alquicira E.</i> Universidad Autónoma Metropolitana, Unidad Iztapalapa
<b>BT-21</b>	<b>Physiological effects caused by reduction on glucose uptake capacity in <i>Escherichia coli</i> mutant strains devoid of glucose transport related genes.</b> <i>Juan Carlos Fragozo Jiménez, Luz María Martínez Mejía, Noemí Flores Mejía, Georgina Hernández Chávez, Alfredo Martínez Jiménez, Guillermo Gosset Lagarda,</i> Instituto de Biotecnología, UNAM
<b>BT-22</b>	<b>Growth assessment of <i>Rhizobium</i> sp. in minimal medium with glucose or succinate as carbon sources.</b> <i>Ramsés Ismael García Cabrera, Norma A. Valdez Cruz, Mauricio A. Trujillo Roldán.</i> Instituto de Investigaciones Biomédicas, UNAM
<b>BT-23</b>	<b>Cytotoxic activity on leukemia cell lines of exopolysaccharides and intra polysaccharides from <i>Humphreya coffeata</i> (Berk) Stey.</b> <i>Monserrat García García, Norma A. Valdez Cruz, Mauricio A. Trujillo Roldán.</i> Instituto de Investigaciones Biomédicas, UNAM
<b>BT-24</b>	<b>Oxygen concentration in culture of <i>Metarhizium anisopliae</i> generates conidia with sustained antioxidant activity.</b> <i>García Ortiz Nohemí, Ernesto Favela Torres, Octavio Loera Corral.</i> Universidad Autónoma Metropolitana, Unidad Iztapalapa
<b>BT-25</b>	<b>Molecular chaperone ZmFES1a: cisgenic over-expression to improve thermo tolerance.</b> <i>Verónica Garrocho Villegas, Sabina Velázquez Márquez, Luis C Castillo, Estela Sánchez de Jiménez.</i> Facultad de Química, UNAM
<b>BT-26</b>	<b>Autoreplicative plasmids for genetic engineering in <i>Lachancea kluyveri</i>.</b> <i>Nicolás Gómez Hernández, Javier Israel Montalvo Arredondo, Lina Raquel Riego Ruiz.</i> Instituto Potosino de Investigación Científica y Tecnológica, A.C.
<b>BT-27</b>	<b>Structural characterization of bacteriophage M13 in acid pH values.</b> <i>Jhoana L González Cansino, Francisco Reyes Espinosa, L Irais Vera Robles, Andrés Hernández Arana.</i> Universidad Autónoma Metropolitana, Unidad Iztapalapa
<b>BT-28</b>	<b>Laccase activity and specific growth rate of <i>Pleurotus ostreatus</i> NRRL 3526 grown on solid-state fermentation and submerged fermentation.</b> <i>Maribel González Palma, Carmen Sánchez, Gerardo Díaz Godínez, Daniel Martínez Carrera, Rubén Díaz Godínez.</i> Centro de Investigación en Ciencias Biológicas, Universidad Autónoma de Tlaxcala
<b>BT-29</b>	<b>Promoter expression pchiAendochitinase chiA74 compared with two dependent promoters sporulation in <i>Bacillus thuringiensis</i>.</b> <i>Karen Stephania González Ponce, Luz Edith Casados Vázquez, José Eleazar Barboza Corona.</i> Universidad de Guanajuato

<b>BT-30</b>	<b>The importance of pH variation in different growth culture media during the production of recombinant proteins in <i>Escherichia coli</i>.</b> Jesús Guerra Muñiz, Mauricio A. Trujillo Roldán, Norma A. Valdez Cruz. Instituto de Investigaciones Biomédicas, UNAM
<b>BT-31</b>	<b>Monitoring of volatile organic compounds (VOCs) during plant-microorganism interaction in real time.</b> Héctor Guillén Alonso, Robert Winkler. CINVESTAV Unidad Irapuato
<b>BT-32</b>	<b>Cloning and expression of recombinant J1-1 defensin from <i>Capsicum chinense</i> in <i>Escherichia coli</i>.</b> Francisco Guillén Chable, Adolfo Guzmán, Georgina Estrada. Centro de Investigación Científica de Yucatán A.C.
<b>BT-33</b>	<b>Metabolic engineering for increasing the production of rhamnolipids in a <i>Pseudomonas aeruginosa</i> strain.</b> Uriel Gutiérrez Gómez, Gloria Soberón Chávez. Instituto de Investigaciones Biomédicas, UNAM
<b>BT-34</b>	<b>Biological effects of cyclodipeptides from <i>Pseudomonas aeruginosa</i> PAO1 in human cancer cells</b> Laura Hernández Padilla, Lorena Farías Rosales, Luis Alberto Sánchez Briones, Víctor Meza Carmen, Jesús Campos García. Universidad Michoacana de San Nicolás de Hidalgo
<b>BT-35</b>	<b>Caracterization of composts made from organic waste of Tepetitla de Lardizabal, Tlaxcala.</b> Joseph Israel Hernández Rivadeneyra, María Myrna Solís Oba, Rigoberto Castro Rivera. Centro de Investigación en Biotecnología Aplicada, IPN
<b>BT-36</b>	<b>Immunogenic properties of ectodomain of porcine rubulavirus Hemagglutinin-Neuraminidase produced in the yeast <i>Pichia pastoris</i>.</b> Irma Herrera Camacho, José Luis Cerriteño Sánchez, Gerardo Santos López, Julio Reyes Leyva, Lourdes Millán Pérez Peña, Nora Hilda Rosas Murrieta. ICUAP, BUAP
<b>BT-37</b>	<b>Critical path for obtaining nutraceuticals species of <i>Rubus</i> spp., and their relationship in preventing metabolic diseases.</b> José Trinidad Herrera Pérez, Rafael Ortiz Alvarado, Victor Meza Carmen, J. Carlos Santiago Jiménez. Universidad Michoacana de San Nicolás de Hidalgo
<b>BT-38</b>	<b>Recombinant overexpression of trypsin III mutants from Monterey sardine (<i>Sardinops sagax caerulea</i>).</b> Nallely Hoyos González, Manuel Ignacio Carretas Valdez, Aldo A. Arvizu Flores. Universidad de Sonora
<b>BT-39</b>	<b>Induction of <i>in vitro</i> morphogenetic response of <i>Kalanchoe daigremontiana</i> for the production of secondary metabolites.</b> Anais Lizbeth Ibarra Chávez, Taurino Méndez Díaz, Manuel Velázquez Ponce, Héctor G. Núñez Palenius, Lisset Herrera Isidró. Instituto Politécnico Nacional
<b>BT-40</b>	<b><i>In vitro</i> micropropagation of <i>Echino cactus grusonii</i> (Golden Barrel Cactus).</b> Anais Lizbeth Ibarra Chávez, Porfirio A. Gallegos Casillas, Juan C. Rodríguez Sierra, Luis E. Murillo Yáñez, Héctor G. Núñez Palenius, Lisset Herrera Isidró. Instituto Politécnico Nacional
<b>BT-41</b>	<b>Determination of laccase and peroxidase activities of the moderate halophile <i>Aspergillus caesiellus</i> growing on phenanthrene and benzo(a)pyrene as only source of carbon.</b> Martín Romualdo Ide Pérez, Jorge Luis Folch Mallol, Ramón Batista García, María del Rayo Sánchez Carbente. Universidad Autónoma del Estado de Morelos
<b>BT-42</b>	<b>Evaluation of benzimidazoles as an alternative in staining of nucleic acids in agarose gel electrophoresis.</b> María Teresa Izaguirre Hernández, Manuel Velázquez Ponce, Karla Lizbeth Macías Sánchez, César Aza González. Unid. Profesional Interdisciplinaria de Ingeniería Campus Guanajuato, IPN
<b>BT-43</b>	<b>Protein engineering for molecular recognition; the cysteine protease inhibitor 1 of <i>Entamoeba histolytica</i>.</b> Pedro Jiménez Sandoval, Corina Díaz Quezada, Ezequiel Alejandro Madrigal Carrillo, Hugo Aníbal Santamaría Suárez, Alfredo Torres Larios, Luis G. Brieba. LANGEBIO, CINVESTAV, Unidad Irapuato
<b>BT-44</b>	<b>Study of the effect of ammonium on the expression of genes coding for regulators sRNAs of Rsm Family in <i>Azotobacter vinelandii</i>.</b> Victoria Juárez Fuentes, Liliana López Pliego, Miguel Castañeda Lucio. Instituto de Microbiología, Benemérita Universidad Autónoma de Puebla
<b>BT-45</b>	<b>Analysis of the structural domains of ChiA74 chitin <i>Bacillus thuringiensis</i>.</b> Estefanía O. Juárez Hernández, Luz Edith Casados Vázquez, José Eleazar Barboza Corona. Universidad de Guanajuato
<b>BT-46</b>	<b>The methylotrophic yeast <i>Pichia pastoris</i> is a suitable host to express complex antigens from <i>Mycobacterium tuberculosis</i>.</b> Daniel Juárez López, Clarita Olvera, Carlos Giroshi Bando Campos, Francisco Javier García Monroy, Mauricio Alberto Trujillo Roldán, Norma Adriana Valdez Cruz. Instituto de Investigaciones Biomédicas, UNAM

<b>BT-47</b>	<b>Expression of <i>Vitreoscilla stercoraria</i> hemoglobin improves growth and reduces lactate yields in CHO-K1 cells.</b> Mariana Juárez Osorio, Claudia Haydée González de la Rosa, Álvaro R. Lara. Universidad Autónoma Metropolitana, Unidad Cuajimalpa
<b>BT-48</b>	<b>Analysis of the role of the peroxidase ZmPrx35: an insight to the biochemical mechanisms of post-harvest insect resistance in maize (<i>Zea mays L.</i>)</b> . Laura Margarita López Castillo, María Fernanda Díaz Flores Rivera, Silverio García Lara. Instituto Tecnológico de Estudios Superiores de Monterrey
<b>BT-49</b>	<b>Immobilized laccase-mediated free radical polymerization of acrylamide in deep eutectic solvents.</b> Héctor Alexander López Muñoz, Claudia Ivonne Muñoz Sánchez, Ma. Irma Cristina Pérez Pérez, Sandra Herrera Pérez, Gabriel Luna Bárcenas, Francisco Villaseñor Ortega. Instituto Tecnológico de Celaya
<b>BT-50</b>	<b>Stabilizing effect of the V915L mutation on the reductase domain of engineered cytochrome P450 BM-3.</b> Jair López Sánchez, Valeria Guzmán Luna, Gloria Saab Rincón. Instituto de Biotecnología, UNAM
<b>BT-51</b>	<b>Enzymatic profiling of oxidases produced by <i>Oxyporus latermarginatus</i> in submerged fermentation in the presence of lignocellulosic.</b> Edy Manuel Surian Cruz, Soley Berenice Nava Galicia, Martha Bibbins Martínez. Centro de Investigación en Biotecnología Aplicada, IPN
<b>BT-52</b>	<b>Study of scale-up criterion kLa and Pg/V in bioprocess for recombinant expression of dextranase in <i>Pichia pastoris</i>.</b> Miguel Ángel Marín Muñoz, Juan Jáuregui Rincón, Leobardo Serrano Carreón, Norma Angélica Chávez Vela. Universidad Autónoma de Aguascalientes
<b>BT-53</b>	<b>Nanovesicles from eukaryotic cells produced by acoustic cavitation.</b> Gisela Martínez Andrade, Blanca E. Millán Chiu, Susana Vargas, Francisco Fernández, Achim M. Loske, Luz M. López Marín. Centro de Física Aplicada y Tecnología Avanzada, UNAM
<b>BT-54</b>	<b>Production and purification of the proteins NEP y NS1 of influenza AH1N1 virus in <i>E. coli</i>.</b> Marbeht Martínez Castañeda, José Luis Cerriteño Sánchez, Nora Rosas Murrieta, Julio Reyes Leyva, Irma Herrera Camacho. Centro de Química-ICUAP, Universidad Autónoma de Puebla
<b>BT-55</b>	<b>Cloning and Expression of mutant defensins with specific binding to phosphatidic acid.</b> Cynthia Gabriela Martínez Liu, Adolfo Guzmán Antonio, Georgina Estrada. Centro de Investigación Científica de Yucatán A.C.
<b>BT-56</b>	<b>Study and bioinformatic characterization of <i>omp6</i>, <i>omp7</i>, <i>omp8</i>, <i>omp9</i>, <i>omp10</i> genes from Mexican strains of <i>Anaplasma marginale</i>.</b> Julián Martínez Salgado, Itzel Amaro Estrada, Rosa Estela Quiroz Castañeda, Sergio D. Rodríguez Camarillo. Centro Nacional de Investigación Disciplinaria en Parasitología Veterinaria, INIFAP
<b>BT-57</b>	<b>Isolation of hydrocarbon degrading bacteria from diesel and gasoline contaminated soil at La Comarca Lagunera.</b> José Antonio Martínez Villalba, Iris Estefanía Moreno García, Mariana Guadalupe Jiménez Valdez, Inty Omar Hernández De Lira, Salvador Sánchez Muñoz. Universidad Iberoamericana Torreón
<b>BT-58</b>	<b><i>Solanum lycopersicum</i> interaction with a <i>Trichoderma atroviride</i> strain that overexpresses an expansin type protein.</b> Olivia Martínez Villamil, Richa Mehta, Edgar Balcázar López, Karina Atriztán Hernández, María del Rayo Sánchez Carbente, Ayixón Sánchez Reyes, Carlos Alberto González Chávez, Verónica Lira Ruan, Alfredo Herrera Estrella, Jorge Luis Folch Mallol. UAEM
<b>BT-59</b>	<b>Study of the interaction and permeability originated by PLGA nanoparticles loaded with melittin in phospholipid membranes that resembles mammary epithelial and breast cancer cells.</b> Arely Matamoros Acosta, Abelardo Chávez Montes, Dvorak Montiel Condado, Brenda González Hernández, Azucena González Horta. Universidad Autónoma de Nuevo León
<b>BT-60</b>	<b>Study of the overexpression effect of the RsmRNAs and its effects in alginate production in <i>Azotobacter vinelandii</i>.</b> Gabriela Fernanda May Compañ, Liliana López Pliego, Miguel Castañeda Lucio. Instituto de Microbiología, Universidad Autónoma de Puebla
<b>BT-61</b>	<b>Characterization of native chitinases from marine microorganisms and their possible application in biotechnology in biological control.</b> Mazón Román Luis Enrique, Licea Navarro Alexei, Martínez Morales Fernando, Trejo Hernández María del Refugio. Universidad Autónoma del Estado de Morelos

<b>BT-62</b>	<b>Prolactin and 17<math>\beta</math>-estradiol induce pro-Inflammatory cytokines in bovine mammary epithelial cells inhibiting <i>Staphylococcus aureus</i> Internalization.</b> Ricardo Iván Medina Estrada, Joel Edmundo López Meza, Alejandra Ochoa Zarzosa. Universidad Michoacana de San Nicolás de Hidalgo
<b>BT-63</b>	<b>Elicitors for the production of esteviosides from cells suspension of <i>Stevia rebaudiana</i> Bertoni.</b> Lizbeth Mejía Espejel, Alejandrina Robledo Paz, Edmundo Lozoya Gloria. Colegio de Postgraduados
<b>BT-64</b>	<b>PepGMV tolerance induction in pepper plants with hydrogen peroxide solutions.</b> Laura Mejía Teniente, González Chavira Mario Martín, Acosta García Gerardo, Torres Pacheco Irineo, Guevara González Ramón Gerardo. Universidad de Guanajuato
<b>BT-65</b>	<b>Evaluation of the modulatory effect of peptides with affinity to human protein disulfide isomerase (PDIA1).</b> Alexis Zarahy Minchaca Acosta, Ramón Castellanos Martínez, Rosa Elena Mares Alejandre, Marco Antonio Ramos Ibarra. Facultad de Ciencias Químicas e Ingeniería, Universidad Autónoma de Baja California
<b>BT-66</b>	<b>Metabolic signatures of tomato plants with differences in Jasmonate Biosynthesis.</b> Josaphat Miguel Montero Vargas, Kena Casarrubias Castillo, John Délano Frier, Robert Winkler. CINVESTAV Unidad Irapuato
<b>BT-67</b>	<b>Continuous monitoring of volatile organic compounds (VOCs) emitted by tomato plants (<i>Solanum lycopersicum</i>) during their interaction with pathogens.</b> Abigail Moreno Pedraza, Robert Winkler. CINVESTAV Unidad Irapuato
<b>BT-68</b>	<b>Determination of lignocellulolytic enzyme activity of the moderate halophile fungus <i>Aspergillus caesiellus</i> growing in wheat straw and agave fibers in halophilic conditions.</b> Víctor Manuel Ocampo Medina, Ramón Batista García, Eya Caridad Rodríguez Pupo, Ayixón Sánchez Reyes, Andrés Zárate Romero, María del Rocío Rodríguez Hernández, Jorge Luis Folch Mallol, María del Rayo Sánchez Carbente. Centro de Investigación en Biotecnología, Universidad Autónoma del Estado de Morelos
<b>BT-69</b>	<b>Visualizing calcium nano domains in living cells through optical patch-clamp recording.</b> José Pablo Ocelotl Oviedo, Adán O. Guerrero Cárdenas, Alberto Darszon. Instituto de Biotecnología, UNAM
<b>BT-70</b>	<b>Roles of enzyme groups within each region of the intestinal tract of <i>E. fetida</i> during vermicomposting.</b> Berenice Ordoñez Arévalo, Karina Guillén Navarro, Esperanza Huerta, Raúl Cuevas, María de los Ángeles Calixto Romo. El Colegio de la Frontera Sur, Unidad Tapachula
<b>BT-71</b>	<b>Comparison of three different pH on recombinant <i>E. coli</i> BL21 (DE3) cultivation.</b> Manuel Ortega Hernando, Alejandro Olvera, Alejandro Alagón, Mauricio A. Trujillo Roldán, Norma A. Valdez Cruz. Instituto de Investigaciones Biomédicas, UNAM
<b>BT-72</b>	<b>Crude extracts of broccoli (<i>Brassica oleracea</i> var. <i>Italica</i>) have inhibitory effect against bacteria of importance in human health and fungi.</b> Rubén Darío Pacheco Cano, Blanca Estela García Almendárez, Rubén Salcedo Hernández, Gustavo Hernández Guzmán, José Eleazar Barboza Corona. Universidad de Guanajuato
<b>BT-73</b>	<b>Biomolecular interaction analysis using magnetic particles.</b> Ana María Peña Balderas, Rosario Esperanza Moctezuma Martíñon, Vanesa Olivares Illana. Instituto de Física, Universidad Autónoma de San Luis Potosí
<b>BT-74</b>	<b>Functional analysis of a 30 kDa endochitinase by VIGS of <i>S. habrochaites</i> and <i>S. arcanum</i> species, to evaluate its possible role in defense against the bacterial canker.</b> Leonardo Isaac Pereyra Bistraín, Mayra Janeth Esparza Araiza, José Pablo Lara Ávila, Rosalba Castillo Collazo, Dulce Alejandra Rougon Cardoso, Ángel Gabriel Alpuche Solís. IPICYT
<b>BT-75</b>	<b>Spores production by <i>Bacillus thuringiensis</i> grown under solid-state and submerged culture.</b> Daniel Guadalupe Pérez Solís, Ernesto Favela Torres, Gustavo Viniegra González. Universidad de Ciencias y Artes de Chiapas
<b>BT-76</b>	<b>Functional expression of a Bowman-Birk inhibitor from Tepary bean seeds and atypical interaction analysis with bovine chymotrypsin.</b> Raquel Pliego Arreaga, Octavio Roldán Padrón, Elizabeth Mendiola Olaya, Luis Brieba, Alejandro Blanco Labra. CINVESTAV Unidad Irapuato
<b>BT-77</b>	<b>Design of a chimeric gene with antimicrobial activity derived from <i>Moringa oleifera</i> Lam. and its expression in <i>Chlamydomonas reinhardtii</i>.</b> Quezada Rivera Jesús Josafath, Soria Guerra Ruth Elena, Morales Domínguez José Francisco. Universidad Autónoma de Aguascalientes

<b>BT-78</b>	<b>Chemical crosslinking of nitrilase filaments for develop a stable and reusable biocatalyst.</b> <i>Julio César Quintana Rojas, Georgina Garza Ramos Martínez. Departamento de Bioquímica, Facultad de Medicina, UNAM</i>
<b>BT-79</b>	<b>Effect of vermicompost on the lettuce innocuity.</b> <i>Víctor Hugo Ramos García, Rebeca Flores Magallón, Gilberto Vázquez Gálvez, Juan Manuel González Prieto. Centro de Biotecnología Genómica, IPN</i>
<b>BT-80</b>	<b>Cytotoxic activity of <i>Thevetiaperuviana</i> extract against cancer cell lines.</b> <i>José Alberto Ramos Silva, Faviola Isabel Tavares Carreón, Yesenia Cristal García Silva, Susana De la Torre Zavala, Aída Rodríguez García, Hamlet Avilés Arnaut. Facultad de Ciencias Biológicas, UANL</i>
<b>BT-81</b>	<b>Evaluation of molecular and metabolic events during recombinant protein production in <i>Escherichia coli</i> with a thermo-inducible system.</b> <i>Sara Restrepo Pineda, Carlos Giroshi Bando Campos, Norma Adriana Valdez Cruz, Mauricio Alberto Trujillo Roldán. Instituto de Investigaciones Biomédicas, UNAM</i>
<b>BT-82</b>	<b>Overexpression of human cystatin C in <i>E. coli</i> and its purification; Isolation of recombinant protein that has been contaminated by nucleic acid after breaking the cells.</b> <i>Francisco Reyes Espinosa, L. Irais Vera Robles, Andrés Hernández Arana. Universidad Autónoma Metropolitana. Unidad Iztapalapa</i>
<b>BT-83</b>	<b>Study of the histidine kinase RetS over the expression of the small regulatory RNAs of the family rsm in <i>Azotobacter vinelandii</i>.</b> <i>Jimena Itzel Reyes Nicolau, Liliana López Pliego, Miguel Castañeda Lucio. Instituto de Microbiología, Universidad Autónoma de Puebla</i>
<b>BT-84</b>	<b>Determination of antimicrobial activity of SPC13, antimicrobial peptide isolated from the venom of <i>Scolopendra polymorpha</i>, against gram-negative bacteria.</b> <i>Carmen Itzamatul Rodríguez Alejandro, Ma. Del Carmen Gutiérrez Villafuerte, Lucero Valladares Cisneros. Universidad Autónoma del Estado de Morelos</i>
<b>BT-85</b>	<b>Characterization of lead compounds bioaccumulated by bacterial strains isolated from metal contaminated soil.</b> <i>Viridiana Rodríguez Sánchez, Vicente Rodríguez González, María Leticia Pérez Arrieta, Juan Armando Flores de la Torre, Jesús Guzmán Moreno, Rosa María Ramírez Santoyo, Luz Elena Vidales Rodríguez. Universidad Autónoma de Zacatecas</i>
<b>BT-86</b>	<b>Isolation and identification of metal tolerant filamentous fungi and their use in the synthesis of gold and silver nanoparticles.</b> <i>Candelario Rodríguez Serrano, Jesús Guzmán Moreno, Rosa María Ramírez Santoyo, Vicente Rodríguez González, José Juan Ortega Sigala, Luz Elena Vidales Rodríguez. Universidad Autónoma de Zacatecas</i>
<b>BT-87</b>	<b>Isolation of bacteria from extreme environments from Baja California Sur with antibacterial activity against multidrug-resistant <i>Staphylococcus aureus</i>.</b> <i>Gregorio Rodríguez Valdez, Carlos Angulo. Centro de Investigaciones Biológicas del Noroeste S.C.</i>
<b>BT-88</b>	<b>Isolation and characterization of levanase of <i>Clavibacter michiganensis</i> subsp <i>michiganensis</i>.</b> <i>Mario Raziel Romay Ramírez, Jesús Hernández Romano, Luis Gerardo Treviño Quintanilla, Sandra Morales Arrieta. Universidad Politécnica del Estado de Morelos</i>
<b>BT-89</b>	<b>Implementation of a new molecular tool to generate multiple mutants in <i>Azotobacter vinelandii</i>.</b> <i>Araceli Rosales Cruz, Liliana López Pliego, Miguel Castañeda Lucio. Instituto de Microbiología, Universidad Autónoma de Puebla</i>
<b>BT-90</b>	<b>Identification and characterization of heavy metal tolerant endophyte fungi from <i>Acacia farneciana</i>.</b> <i>Salazar Ramírez Giovanni, Folch Mallol Jorge L, Mussali Galante Patricia. UAEM</i>
<b>BT-91</b>	<b>Evaluation of bacterial endophyte strains of legumes as plant growth promoting rhizobacteria.</b> <i>Ricardo Sánchez Cruz, Jorge Luis Folch Mallol, Arnoldo Wong Villarreal, Ayixon Sánchez Reyes. Universidad Autónoma del Estado de Morelos</i>
<b>BT-92</b>	<b>Characterization of microorganisms with biotechnological potential isolated from sites contaminated with heavy metals.</b> <i>Juan Francisco Sánchez López, Miryam Jhazmin Torres Gómez, Ana Laura Rodríguez Sotelo, Agustín Hilario Rocha Ramírez, Anastasio Cortés Mendoza, Juan de Dios Ortiz Alvarado, Aurelio Álvarez Vargas, Carmen Cano Canchola. Unidad Profesional Interdisciplinaria de Ingeniería, Campus Guanajuato, IPN</i>

<b>BT-93</b>	<b>Partial purification and characterization of milk clotting enzyme from <i>Moringa oleifera</i> Lam.</b> María A. Sánchez Muñoz, Mónica A. Valdez Solana, Claudia Avitia Domínguez C, Alfredo Téllez Valencia, Juan R Esparza Rivera, Jorge A Meza Velázquez, Patricia Ramírez Baca, Erick Sierra Campos. Universidad Juárez del Estado de Durango
<b>BT-94</b>	<b>Study of the genes involved in the biosynthesis of Cyclodipeptides; cyclo(L-Pro-L-Tyr), cyclo(L-Pro-L-Phe) and cyclo(L-Pro-L-Val) from <i>Pseudomonas aeruginosa</i> PAO1.</b> Cristhian Said Solís Ortiz, Rodrigo García López, Laura Hernández Padilla, Alma Díaz Pérez, Jesús Campos García. Universidad Michoacana de San Nicolás de Hidalgo
<b>BT-95</b>	<b>Effect of hyperoxidising atmosphere on UVB radiation resistance and its relationship with the activity of the enzyme Gpx in conidia of two strains <i>I. fumosorosea</i>.</b> Gerardo Suárez Vergel, Nohemí García Ortiz, Paul Misael Garza López, José Francisco Miranda Hernández, Octavio Loera Corral. Universidad Autónoma Metropolitana Unidad Iztapalapa
<b>BT-96</b>	<b>Expression of amebic chitinase (<i>EhCHT1</i>) on the surface of <i>Escherichia coli</i>.</b> Ricardo Torres Bañaga, Patricia Lilián Alejandra Muñoz Muñoz, Rosa Elena Mares Alejandre, José Luis Mijangos Montiel, Samuel Guillermo Meléndez López, Marco Antonio Ramos Ibarra. Facultad de Ciencias Químicas e Ingeniería, Universidad Autónoma de Baja California
<b>BT-97</b>	<b>Binding Calorimetric Study of a Stabilized Human Cystatin C and Chymopapain.</b> David Octavio Tovar Anaya, María Teresa Vieyra Eusebio, Liliana Irais Vera Robles, Ponciano García Gutiérrez y Rafael A. Zubillaga. Universidad Autónoma Metropolitana Unidad Iztapalapa
<b>BT-98</b>	<b>In vitro propagation of pineapple (<i>Ananas comosus</i> (L.) Merr.) cv. 'Smooth Cayenne'.</b> Erik Noé Tovar Peralta, Martín Peralta Gil, José Silvestre Delgadillo Díaz de León, Eugenio Pérez Molphe Balch. Universidad Autónoma de Aguascalientes
<b>BT-99</b>	<b>Inulinases as an alternative to the use of agave and its wastes to produce fructose and fructo oligosaccharides.</b> Jonathan Trapala Reyna, Carmina Montiel Pacheco, Eduardo Bárzana García, Sandra Pérez Munguía. Facultad de Química, UNAM
<b>BT-100</b>	<b>Genomic sequencing and characterization of the metabolic pathway involved in chloranilic acid degradation on <i>Herbaspirillum</i> sp. TQ07.</b> Luis Gerardo Treviño Quintanilla, Itzel López Mendoza, Juan José Colín Salinas. Universidad Politécnica del Estado de Morelos
<b>BT-101</b>	<b>Degradation of pyrene and phenanthrene in hypersaline conditions by <i>Aspergillus caesiellus</i> H1 halophyla strain.</b> Deborah González Abradelo, María del Rayo Sánchez Carbente, Jorge Luis Folch Mallol, Verónica Lira Ruan, Ramón Alberto Batista García. Centro de Investigación en Dinámica Celular, Universidad Autónoma del Estado de Morelos
<b>BT-102</b>	<b>Identification and isolation of proteinaceous compounds with antimicrobial activity in the <i>Scolopendraviridis</i> Venom.</b> Lucero Valladares Cisneros, María del Carmen Gutiérrez Villafuerte. Universidad Autónoma del Estado de Morelos
<b>BT-103</b>	<b>Lytic activity of melittin on <i>Neochlorisoleo abundans</i> (Chlorophyta) for enhance neutral lipid extraction.</b> Magda Patricia Vargas Pérez, Azucena González Horta, Hugo Alberto Luna Olvera, Abelardo Chávez Montes. Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León
<b>BT-104</b>	<b>Cytotoxic effects and apoptosis induction by defensine gamma thionin (<i>Capsicum chinense</i>) and butyrate in colon cancer cell lines.</b> María Elena Velázquez Hernández, Alejandra Ochoa Zarzosa, Joel Edmundo López Meza. Universidad Michoacana de San Nicolás de Hidalgo
<b>BT-105</b>	<b>Maize differential tolerance on water stress conditions: Contribution of soluble solutes and dehydrins.</b> Sabina Velázquez Márquez, Verónica Garrocho Villegas, Víctor González Hernández, Estela Sánchez Quintanar. Facultad de Química, UNAM
<b>BT-106</b>	<b>Cell surface display of proteins on filamentous fungi.</b> Jorge Verdín, Elisa Fernández Castillo, Laura Castillo Ortega, Samuel Atic Vargas, Jesús Urbar Ulloa. Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C.
<b>BT-107</b>	<b>A cytoplasmic Slo3 fragment regulates both Slo3 and Slo1 potassium channels in mouse.</b> Alberto Vicens Sánchez, David C. Wrighton, Karla Andrade, Julio César Chávez, Diego Cortez, Rosa María Gutiérrez, Jonathan D. Lippiat, Claudia Treviño. Instituto de Biotecnología, UNAM

<b>BT-108</b>	<b>Molecular characterization of hydrogenase activity from an Antarctic biohydrogen producing strain.</b> Abraham M. Vidal Limón, Sergio Cisneros de la Cueva, Cecilia Lizeth Álvarez Guzmán, Víctor E. Balderas Hernández, Antonio De León Rodríguez. Instituto Potosino de Investigación Científica y Tecnológica, A.C.
<b>BT-109</b>	<b>Purification of a α-L-arabinofuranosidase from <i>Colletotrichum lindemuthianum</i> race 1472.</b> María Guadalupe Villa Rivera, María Guadalupe Zavala Páramo, Alicia Lara Márquez, Everardo López Romero, Ulises Conejo Saucedo, Horacio Cano Camacho. Universidad Michoacana de San Nicolás de Hidalgo
<b>BT-110</b>	<b>Implementation of a PCR-based system for generation of mutants in the phytopathogenic fungus <i>Ustilago maydis</i>.</b> Nubia Andrea Villota Salazar, Artemio Mendoza Mendoza, Juan Manuel González Prieto. Centro de Biotecnología Genómica, IPN
<b>BT-111</b>	<b>Speeding up the enzymatic reaction of triosephosphate isomerase.</b> Vique Sánchez JL, Caro Gómez LA, Brieba Luis, Romero Romero S, Fernández Velasco DA, Benítez Cardoza C. Escuela Nacional de Medicina y Homeopatía, IPN
<b>BT-112</b>	<b>Comparative analysis of the transcriptome of <i>Aspergillus caesiellus</i> grown in pyrene and phenanthrene in hypersaline conditions.</b> Heidy Peidro Guzmán, Yordanis Pérez Llano, María del Rayo Sánchez Carbente, Jorge Luis Folch Mallol, Ramón Alberto Batista García. Centro de Investigaciones en Dinámica Molecular
<b>BT-113</b>	<b>Preliminary study of thermoplastic starch biofilms with additives to inhibit the growth of <i>Salmonella</i> and <i>Escherichia coli</i> in blackberry.</b> Cinthya Ofelia De la Rosa Morales, José Luis Rivera Corona, Manuel Carrillo Morales and Sandra Morales Arrieta, Universidad Politécnica del Estado de Morelos
<b>BT-114</b>	<b>Synthesis of catechol melanin from glycerol employing engineered <i>Escherichia coli</i>.</b> Ramón de Anda, Alejandra Mejía Caballero, Georgina Hernández Chávez, Carlos Vargas, Simone Rogg, Alfredo Martínez, Francisco Bolívar, Victor M. Castaño and Guillermo Gosset. Departamento de Ingeniería Celular y Biocatálisis, Instituto de Biotecnología, UNAM
<b>BT-115</b>	<b>Plant volatiles act in the direct resistance to pathogenic fungi.</b> Luis E. Rivera Macías, Elizabeth Quintana Rodriguez, Rosa M. Adame Álvarez, Jorge Molina Torres and Martin Heil. CINVESTAV Unidad Irapuato.
<b>BT-116</b>	<b>Effect of polyphenols from the leaves of Mexican avocado (<i>Persea americana</i> var. <i>drymifolia</i>) over the gene expression of Methicillin-Resistant <i>Staphylococcus aureus</i>.</b> Victor Eustorgio Aguirre Arzola, Miguel Angel García Moreno, Guillermo Cristian Martínez Ávila, Ma del Carmen Ojeda Zácaras. Facultad de Agronomía, Universidad Autónoma de Nuevo León

## MEDICINE, HEALTH AND NUTRITION

<b>M-1</b>	<b>Effect of mitochondrial inhibitors on the viability of cancer stem-like cells of breast cancer MCF-7.</b> Alhelí Adán Ladrón de Guevara, Juan Carlos Gallardo Pérez. Instituto Nacional de Cardiología
<b>M-2</b>	<b>Meniscal cell membrane express ectopic IF1-ATP synthase and its expression is regulated by TNF-α and IL-1β.</b> Rocío Aguilar Gaytan, Francisco Pérez Jiménez, Raúl Pichardo Bahena, Cecilia Zazueta Mendizábal, Clemente Ibarra. Instituto Nacional de Rehabilitación
<b>M-3</b>	<b>Establishment of an obesity model to evaluate hepatic steatosis.</b> Clara Alba Betancourt, Claudia Leticia Mendoza Macías, Martha Alicia Deveze Álvarez, Marco Antonio Ramírez Morales, Ángel Josabad Alonso Castro, Martha Citlalli Contreras Romo. Departamento de Farmacia. Div. De Ciencias Naturales y Exactas. Universidad de Guanajuato
<b>M-4</b>	<b>2-methoxyestradiol and dichloroacetate effects on A-549 and MRC5 cells grown under hypoxic conditions.</b> Arnoldo Aquino Gálvez, Jesús Eduardo Sánchez Calleja, Javier Delgado Tello, Criselda Mendoza Milla, Manuel Castillejos López, Luz María Torres Espíndola, Bettina Sommer Cervantes, Marco Checa Caratachea, Carlos Cabello Gutiérrez, Georgina González Ávila. Instituto Nacional de Enfermedades Respiratorias Ismael Cosio Villegas

M-5	<b>Analysis of the expression of miR-15a, miR-16-1 and miR-193a in circulation and its correlation with the expression of WT1 in patients with nephrotic syndrome.</b> Mariela Arellano Rodríguez, Pablo Zapata Benavides, Juan José Bollain y Goytia de la Rosa, Felipe de JesusTorres del Muro, Esperanza Avalos Díaz, Rafael Herrera Esparza, Cristina Rodríguez Padilla. Universidad Autónoma de Nuevo León
M-6	<b>Purification of human Paraoxonase 1 (PON1h) from blood inhibits biofilm formation on Aeromonascaviae Sch3.</b> Gabriel Betanzos Cabrera, Celaya Correa Iván Fco, Mercado Monroy José, Resendiz Otero María Fernanda, Ronces Arrieta Rodrigo, Ariza Ortega José Alberto, Estrada Luna Diego. Instituto de Ciencias de la Salud, Universidad Autónoma del Estado de Hidalgo
M-7	<b>Protein levels of IRE1, ATF6 and PERK (Unfolded Protein Response mediators) in alkali corneal lesion in rat.</b> Rosalba Buenrostro León, Sindira González López, Raquel Guerrero Alba, José Rafael Villafan Bernal, Luis Torres Bernal, Eduardo Emmanuel Valdez Morales, Sugela Susana Blancas Zugarazo. Neurosurgery, Universidad Autónoma de Aguascalientes
M-8	<b>Effects of Spirulina maxima on physical performance and antioxidant status in athletes.</b> Ma. Guadalupe Calderón Gallardo, Marco Antonio Juárez Oropeza, María Teresa Espinosa García and Patricia Victoria Torres Durán. Bioquímica. Facultad de Medicina, UNAM
M-9	<b>Preliminary study of Coriandrum sativum seed consumption on dysglycemia and dyslipidemia models.</b> Oscar De Jesús Calva Cruz, Samuel Treviño Mora, Violeta Aburto Luna, Roberto Sánchez Olea. Instituto de Física, Universidad Autónoma de San Luis Potosí
M-10	<b>Coxpression of progesterone receptor and TGF-β in epithelial Ovarian cancer.</b> Calvillo Robledo Argelia, Gómora Herrera María José, Damian Matsumura Pablo, Morales Vásquez Flavia, Roman Bassaure E, Méndez Herrera Carmen, Pedernera Astegiano Enrique. Universidad Autónoma Metropolitana Unidad Iztapalapa
M-11	<b>Effect of Moringa oleifera extract on glutaminase-1 activity in a breast cancer murine model.</b> Mara Ibeth Campos Almazán, Jessica Lizbeth Hernández Rivera, Jaime Abraham de Lira Sánchez, Erick Sierra Campos, Mónica Andrea Valdés Solana, Claudia Isela Avitia Domínguez, Alfredo Téllez Valencia. Facultad de Medicina y Nutrición, Universidad Juárez del Estado de Durango
M-12	<b>Antagonistic activity of a Lactobacillus sp strain isolated from environment against bacteria associated with foodborne diseases.</b> Ricardo Carrasco Torres, Juan Carlos Benítez Serrano, Azarel Ruíz Román, Patricia Aguilar Alonso, Gloria León Tello, Laura Martínez Pérez. Depto. de Microbiología. Facultad de Cs. Químicas, BUAP
M-13	<b>Hypoxia modulates the expression of the cytochrome P450 isoforms CYP1A1, CYP2S1, CYP3A7 and CYP24A1 in cancer.</b> Rosa Angélica Castillo Rodríguez, Sergio Juárez Méndez, Víctor Manuel Dávila-Borja. Laboratorio de Oncología Experimental, Instituto Nacional de Pediatría
M-14	<b>MicroRNAs profiling in breast cancer stem cells-like (CD44<sup>+</sup>/CD24<sup>-</sup>) identify members of WNT/b-catenin signaling pathway as targets of let-7c-3p.</b> Karen Nayeli Chaparro Pulido, Lizeth Fuentes Mera, Claudia Villarreal Ovalle, Vanessa Pérez Silos, Erika Coronado Cerda, Elsa Maribel Aguilar Medina, Rosalio Ramos Payán, Laurence Annie Marchat, César López Camarillo. Facultad de Ciencias Químico Biológicas, Universidad Autónoma de Sinaloa
M-15	<b>In the HCC827 lung adenocarcinoma cell line, Erlotinib induces apoptosis associated with the expression of immunogenic cell death markers.</b> Rodolfo Luis Chávez Domínguez, Dolores Aguilar Chazares, Heriberto Prado García, Lorenzo Islas Vázquez, José Sullivan López González. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas
M-16	<b>Regulation of respiratory chain by Moringa oleifera leaves extract in a breast cancer murine model.</b> Jaime Abraham De Lira Sánchez, Mara Ibeth Campos Almazán, Jessica Lizbeth Hernández Rivera, Mónica Andrea Valdés Solana, Erick Sierra Campos, Alfredo Téllez Valencia, Claudia Isela Avitia Domínguez. Facultad de Medicina y Nutrición, Universidad Juárez del Estado de Durango
M-17	<b>(-)Epicatechin flavonoid treatment improves the mechanical heart performance in healthy mice.</b> Sergio De los Santos Enríquez, Carlos Jesús González Gutiérrez, Sauri Hernández Resendiz, Carlos Palma Flores, Jennifer Alcántara Blancarte, Cecilia Zazueta, Alejandro Zentella, Patricia Canto, Ramón Coral Vázquez. Instituto de Investigaciones Biomédicas, UNAM

M-18	<b>Effect of supplementation of dehydrated pineapple core (<i>Ananascomosus</i>) in glycemic index and fiber content in a bisquet type bread.</b> Karina Nathalie Escutia López, Lourdes Mendoza Ruiz, Natalia Cecilia Hernández Delgado, Luis Fernando Cervantes Serrato, Eugenia Samantha Hidalgo Gutiérrez, Esbeydy Enríquez Guerra, Epifanio Jiménez García, Ma. Elena Sánchez Pardo. Unidad Profesional Adolfo López Mateos. Instituto Politécnico Nacional
M-19	<b>Effects of damiana (<i>T. diffusa Willd. vardiffusa</i>) in diabetes lipids control.</b> Esquivel Gutiérrez Edgar Romualdo, Alcaraz Meléndez Lilia, Hernández Herrera Roberto. Centro de Investigaciones Biológicas Del Noroeste S.C.
M-20	<b>Daily supplementation with fresh pomegranate juice increases paraoxonase 1 expression and activity in mice fed an atherogenic diet.</b> Estrada Luna D, Martínez Hinojosa E, Cancino Diaz JC, Belefant Miller H, López Rodríguez G, BetanzosCabrera G. Instituto de Ciencias de la Salud, Universidad Autónoma del Estado de Hidalgo
M-21	<b>Finding potential inhibitors of shikimate kinase from methicillin resistant <i>Staphylococcus aureus</i> through virtual screening.</b> Alejandro Favela Candia, Rafael Alejandro Moreno Silerio, Jorge Cisneros Martínez, Marcelo Gémez Palacio Gatelum, Claudia Isela Avitia Domínguez, Alfredo Téllez Valencia. Universidad Juárez del Estado de Durango
M-22	<b>Characterization of a type 2 diabetes model in lactating Wistar rats.</b> María del Consuelo Figueroa García, Ricardo Mejía Zepeda. FESI. UNAM
M-23	<b>Extraction and characterization of protein fractions with nutraceutical potential from two species of insects of Tenebrionidae family: <i>Ulomoides dermestoides</i> and <i>Tenebrio molitor</i>.</b> Flores Mendoza Daniel Rogelio, Vania Montserrat Salazar Camarillo, Ramírez Anguiano Ana Cristina, Gallegos Castillo Saúl, José de Jesús Luna Díaz, Navarrete Heredia José Luis, Velasco Ramírez Sandra Fabiola, Velázquez Juárez Gilberto. Departamento de Química. Centro Universitario de Ciencias Exactas e Ingenierías. Universidad de Guadalajara
M-24	<b>FAT1 in idiopathic pulmonary fibrosis.</b> García Álvarez Juna Antonio, Ferrer A, Medrano L, Gutiérrez J, Ramírez R, Medina D, Balderas Y, Iglesias A, Selman M, Pardo A. Laboratorio de Bioquímica, Facultad de Ciencias, UNAM
M-25	<b>2D-DIGE analysis of serum of Mexican patients with Type-2 diabetes in relation to their body mass index.</b> Erik Elvin Gómez Cardona, Eric Edmundo Hernández Domínguez, Alberto Barrera Pacheco, Aida Jimena Velarde Salcedo, Antonio de León Rodríguez, Agustín Díaz Gois, Ana Paulina Barba de la Rosa. Instituto Potosino de Investigación Científica y Tecnológica
M-26	<b>Antimicrobial and Antibiofilm effect of Flavonoids in Periodonto pathogens.</b> Juan Arturo Gómez Mora, Marco Antonio Meraz Rodríguez, Mónica Arisbet Flores Sánchez, Gloria Gutiérrez Venegas. Laboratorio de Bioquímica. División de Estudios de Posgrado e Investigación. Facultad de Odontología, UNAM
M-27	<b>Expression of opioid grow factor receptor (OGFr) and transient receptor potential vanilloid 1 (TRPV1) in a rat alkali-burned cornea model.</b> Sindira González López, Rosalba Buenrostro, Luis Fernando Torres Bernal, Rafael Villafan Bernal, Sugela Susana Blancas Zugarazo, Eduardo Emmanuel Valdez Morales. Universidad Autónoma de Aguascalientes
M-28	<b>Endothelial activation mediated by tumor soluble factors secreted by breast cancer cell lines with low and high metastatic potential.</b> César Alejandro Guzmán Pérez, Alfredo Ibarra Sánchez, Alberto José Cabrera Quintero, Juan Pablo Aragón Hernández, Jorge Román Audifred Salomón, José Luis Ventura Gallegos, Claudia González Espinosa, Alejandro Zentella Dehesa. Unidad Bioquímica. Instituto Nacional de Ciencias Médicas y Nutrición
M-29	<b>PCR identification for the four most common <i>Candida</i> species in nosocomial infections.</b> José Oscar Arturo Hernández Carreón, Grecia Hernández Hernández, Alejandro de las Peñas Nava, Irene Castaño Navarro. Instituto Potosino de Investigación Científica y Tecnológica
M-30	<b>Development of functional gummies using reduced moisture xoconostle (<i>Opuntia joconostle</i>) pulp</b> Natalia Cecilia Hernández Delgado, Paola Meza Crispín, Karina Nathalie Escutia López, Luis Fernando Cervantes Serrato, Esbeydy Enríquez Guerra, Eugenia Samanta Hidalgo Gutiérrez, Epifanio Jiménez García, María Elena Sánchez Pardo. ENCB, Instituto Politécnico Nacional

M-31	<b>Changed of platelet activity in patients with hypothyroidism.</b> María Teresa Hernández Huerta, Laura Elena Pérez Ríos, Laura Pérez Campos Mayoral, Margarito Martínez Cruz, María del Socorro Pina Canseco, Eduardo Pérez Campos, Ruth Martínez Cruz. Unit of Biochemistry. ITO UNAM
M-32	<b>Effects of insulin and interleukin 10 (IL 10) in migration and proliferation process on HeLa, C33A and HaCat cells.</b> Eva Hernández Márquez, Ivone Castro Romero, Anabel Martínez Baez, David Martínez Pastor, Elizabeth Saucedo Arellano, Diana Lashidua Fernández Coto, Ana Silvia Arenas Linares, Guadalupe Ayala Aguilar. CISEI. Instituto Nacional de la Salud Pública
M-33	<b>Antineoplastic capacity of <i>Moringa oleifera</i> extract through regulation of pyruvate dehydrogenase complex in a breast cancer murine model.</b> Jessica Lizbeth Hernández Rivera, Mara Ibeth Campos Almazán, Jaime Abraham de Lira Sánchez, Erick Sierra Campos, Mónica Andrea Valdés Solana, Alfredo Téllez Valencia, Claudia Isela Avitia Domínguez. Facultad de Medicina y Nutrición. Universidad Juárez del Estado de Durango
M-34	<b>Thiamine deprivation produces similar metabolic and genomic effects as biotin deficiency.</b> Alain Hernández Vázquez, Josué Andrés García Sánchez, Elizabeth Moreno Arriola, Ana Salvador Adriano, Daniel Ortega Cuéllar, Isabel Ibarra González, Antonio Velázquez Arellano. Unidad de Genética de la Nutrición. Instituto de Investigaciones Biomédicas, UNAM
M-35	<b>Alzheimer's Disease: In TheEye?</b> Luis Fernando Hernández Zimbron, Rubén Zamora Alvarado, Lenin Ochoa de la Paz, Roberto González Salinas Edgar Zenteno Galindo, Hugo Quiroz Mercado. Unidad de Investigación, Asociación Para Evitar la Ceguera en México
M-36	<b>In vitro validation of differential gene expression for Acute Leukemia subtypification in Baja California Sur.</b> Karina Elizabeth Jiménez Camacho, Reyna Romero Geraldo, Enrique Luna Taylor and Jesús González García. Instituto Tecnológico de la Paz
M-37	<b>Evaluation of the antifungal activity of imidazo[1,2-a]pyridine compounds on <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i>.</b> Arturo Landeros de la Isla, Paulina Serrano Sandoval, Manuel Velázquez Ponce, César Aza González, Karla Lizbeth Macías Sánchez. Instituto Politécnico Nacional
M-38	<b>Incidence Of Atherogenic Risk Factors In A Population Of The State Of Tabasco.</b> Alejandra López Rivera, José Joaquin Ovando Sánchez, Carlos Javier López Victorio. Universidad Juárez Autónoma de Tabasco
M-39	<b>Matrix Metalloproteinase (MMP)-28 increases proliferation rate and migration of lung alveolar and bronchial epithelial cells, and localizes in the nuclei of alveolar epithelial cells in Idiopathic Pulmonary Fibrosis.</b> Mariel Maldonado, Iliana Herrera, Ivette Buendía Roldán, Remedios Ramírez, Blanca Ortíz Quintero, Alfonso Salgado Aguayo, Moisés Selman, Annie Pardo. Facultad de Ciencias, UNAM
M-40	<b>Vasculogenic mimicry is inhibited by angiomiR miR-204 in breast cancer.</b> Gilberto Mandujano Lázaro, Ali Flores Pérez, Laurence A. Marchat, Sergio Rodríguez Cuevas, César López Camarillo. Posgrado en Ciencias Genómicas. Universidad Autónoma de la Ciudad de México
M-41	<b>Identification of oral bacteria associated with periodontal disease in patients on chronic hemodialysis.</b> América Susana Mares García, Jesús Antonio Viana Rojas, Amaury Pozos Guillén, Juan Manuel López Quijano, Antonio Gordillo Moscoso. Facultad de Medicina. Universidad Autónoma de San Luis Potosí
M-42	<b>Comparison of commercial kits for molecular biology research.</b> América Susana Mares García. Diffractia México
M-43	<b>Early activation of autophagy in response to DNA damage caused by Irinotecan in mammal cells.</b> Zaida Escila Martínez Moreno, Gabriel Muciño Hernández, Susana Castro Obregón. Departamento de Neurodesarrollo y Fisiología, División de Neurociencias. UNAM
M-44	<b>Omega-3 fatty acids and diabetes: effects on lipid metabolism and biological membranes.</b> Ricardo Mejía Zepeda, Mónica Rivera Valencia, María del Consuelo Figueroa García. FES Iztacala, UNAM
M-45	<b>Combination treatment with ATRA and Fulvestrant inhibits mammary carcinoma cell migration and metastasis in a chicken embryo model.</b> Rosa Isela Mendizabal Riveros, Omar Fernando Cortés Ponce De León, Axayacatl Morales Guadarrama, José Antonio Herrera Barragán, Claudia Haydée González Dela Rosa, Juan Gabriel Rivera Martínez, Javier Esteban Jiménez Salazar and Pablo Damián Matsumura. Biología de la Reproducción. Universidad Autónoma Metropolitana

M-46	<b>Effect of matrix stiffness on normal human lung fibroblasts.</b> <i>Andrea Magali González Mora, Mathieu Hautefeuille, Moises Selman, Annie Pardo.</i> Laboratorio de Bioquímica, Departamento de Biología Celular, Facultad de Ciencias,UNAM
M-47	<b>Dysregulated calcium signals in tumoral cells MCF-7.</b> <i>Verónica Morales Tlalpan, Carlos Saldaña, Gustavo Acosta Santoyo, Aura Moreno Vega, Hebert Luis Hernández Montiel, Adriana Jheny Rodríguez Méndez, Mauricio Díaz Muñoz.</i> Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro
M-48	<b>Tepary bean lectins fraction (<i>Phaseolus acutifolius</i>) induces apoptosis in cell lines of colon cancer.</b> <i>Ulisses Moreno Celis, Roberto Augusto Ferríz Martínez, Adriana Jheny Rodríguez Méndez, María del Carmen Mejía Vázquez, Alejandro Blanco Labra, Teresa García Gasca.</i> Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro
M-49	<b>Stevia rebaudiana Bertoni promotes insulin expression and release in Wistar rats fed with a hypercalorie diet.</b> <i>Diana Moroni González, Patricia Aguilar Alonso, Eduardo Miguel Brambila Colombres, Alfonso Daniel Díaz Fonseca, Samuel Treviño Mora.</i> Laboratorio de Investigaciones Químico Clínicas, Universidad Autónoma de Puebla
M-50	<b>Link between triglycerides, SCFAs levels and Colon microbiota functional metabolic profile in the mexican childhood obesity.</b> <i>Selvasankar Murugesan, Otoniel Maya, María Luisa Pizano Zárate, Flor María Galván Rodríguez, Carolina Miranda Brito, Marta Romano Pardo, Alberto Piña Escobedo, Carlos Hoyo Vadillo, Jaime García Mena.</i> Departamento de Genética y Biología Molecular, CINVESTAV Zacatenco
M-51	<b>Nutraceutical effects by peptides and metabolites from chia: the golden crop of the 21st century.</b> <i>Domancar Orona Tamayo, María Elena Valverde and Octavio Paredes López.</i> CINVESTAV Irapuato
M-52	<b>Anti-mitochondrial therapy against triple negative breast cancer.</b> <i>Silvia Cecilia Pacheco Velázquez, Rafael Moreno Sánchez, Sara Rodríguez Enríquez.</i> Instituto Nacional de Cardiología "Ignacio Chávez"
M-53	<b>Nicorandil increases activity of complex I and III of the electron transport chain in atrophied muscle mitochondria.</b> <i>Padilla Maldonado Paulina, Sánchez Pérez Tania Alina, Sánchez Duarte Elizabeth, Cortés Rojo Christian, Saavedra Molina Alfredo, Montoya Pérez Rocío.</i> Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo
M-54	<b>A novel panel of breast cancer-associated auto-antibodies in serum against recombinant tumor-associated antigens.</b> <i>Cecilia Pagaza Straffon, Laurence A. Marchat, José Díaz Chavez, Mauricio González Avante, Rosalba Carmona, Mauricio Castañón, Yadira Palacios, César López Camarillo.</i> Posgrado en Ciencias Genómicas, Universidad Autónoma de la Ciudad de México
M-55	<b>Impact of type 1 diabetes on liver Acetyl CoA carboxylase of mice with different biotin Status.</b> <i>Cecilia Palmas Bustamante, Laura P. Guerrero Carrillo, Ana L. Vázquez Jiménez, Miguel Anastacio Villanueva, Cecilia Ayala Zambrano, Jorge Omar García Rebollar, Georgina Díaz Herrera, Nancy Y. Mora Pérez, Armida Báez Saldaña.</i> Instituto de Investigaciones Biomédicas, UNAM
M-56	<b>Effects of Pharmacological Concentration of Biotin on Testis and Expression levels of Acrogranin in Mice.</b> <i>Karina Pasten Hidalgo, Gloria Sicilia Argumedo Cristina Fernández Mejía.</i> Instituto de Investigaciones Biomédicas, Instituto Nacional de Pediatría
M-57	<b>TIGAR knockdown carry out to metabolic changes in cancer cell lines affecting survival.</b> <i>Miguel Ángel Peña Rico, María Nieves Calvo Vidal, Ruth Villalonga, Fina Martínez, Pepita Giménez, Aurea Navarro Sabaté, Avelina Tortosa, Ramón Bartrons and Anna Manzano.</i> Bioquímica, Facultad de Medicina, UNAM
M-58	<b>Evaluation of the DNA integrity in isolated nuclei obtained from mouse spermatozoa.</b> <i>Rocío Quiroga Moreno, Rosalina Reyes Luna, Juan Carlos Flores Alonso.</i> Centro de Investigación Biomédica de Oriente. IMSS
M-59	<b>Diabetes Mellitus type 2 decrease migratory capacity and store operated calcium entry in cardiac fibroblasts.</b> <i>Josué Miguel Julián Ramírez Reyes, Eduardo Monjaraz, Roberto Berra Romani, José Everardo Avelino Cruz.</i> Facultad de Medicina, Universidad Autónoma de Puebla
M-60	<b>Isolation of an RNA aptamer population against HPV-16 L1 protein.</b> <i>Sergio Israel Rangel Guerrero, Luis Marat Álvarez Salas.</i> Departamento de Genética y Biología Molecular.CINVESTAV Zacatenco

M-61	<b>Serum iron is associated with dyslipidemia in a population of Mexico City.</b> Susana Rivera Mancía, Maite Vallejo Allende, Eloísa Colín Ramírez, Raúl Cartas Rosado, Oscar Infante Vázquez, Jesús Vargas Barrón. CONACyT. Instituto Nacional de Cardiología "Ignacio Chávez"
M-62	<b>Synergistic evaluation of anti-mitochondrial and clinical drugs in cervix cancer growth.</b> Diana Xochiquetzel Robledo Cadena, Sara Rodríguez Enríquez. Departamento de Bioquímica. Instituto Nacional de Cardiología "Ignacio Chávez"
M-63	<b>Biomarker profile of oncogenic proteins in patients with cardiac myxoma.</b> Sara Rodríguez Enríquez, Silvia Cecilia Pacheco Velázquez, Juan Carlos Gallardo Pérez, Alhelí Adán Ladrón de Guevara, Jesús Vargas Barrón. Departamento de Bioquímica y Dirección de Investigación, Instituto Nacional de Cardiología "Ignacio Chávez"
M-64	<b>Differential effect of molecular iodine in mammosphere culture of breast cancer MCF-7 cells.</b> Gabriel Miguel Rodríguez Gómez, Evangelina Delgado, Carmen Aceves. Instituto de Neurobiología, UNAM
M-65	<b>In vitro identification of differential gene expression in patients with colorectal cancer in Baja California Sur.</b> Geovanni Ruiz Romero, Reyna Romero Geraldo Jesús Gonzales García, Mauricio Rodríguez Ojeda. Instituto Tecnológico de la Paz
M-66	<b>Proteomic study on mitochondrial complex IV disease using primary skin fibroblast cultures.</b> Karina Olivia Salvador Severo, Rosa María Ribas Aparicio, José García Trejo, Juan Fernando Minauro Sanmiguel. Hospital Pediatrico. CMN SXXI. IMSS
M-67	<b>Analysis of circulating microRNAs in plasma of gastric cancer patients.</b> Mayra Cecilia Suárez Arriaga, Torres López Javier, Camorlinga Ponce Margarita, Piña Sánchez Patricia, Valdez Salazar Hilda Alicia, Ribas Aparicio Rosa María, Fuentes Pananá Ezequiel M, Ruiz Tachiquín Martha Eugenia. Instituto Politécnico Nacional
M-68	<b>Identification of IgE binding proteins from <i>Ligustrum lucidum</i> using an Immunoproteomics approach.</b> Luis Manuel Terán Juárez, Blessy Maruthukunnel Mani, Erik Elvin Gómez Cardona, Gandhi Fernando Pavón Romero, Alberto Barrera Pacheco, Ana Paulina Barba de la Rosa. Instituto Nacional de Enfermedades Respiratorias "Ismael Cosio Villegas"
M-69	<b>Effect of biotin supplementation during different stages of pancreatic development.</b> WilmaTixi Verdugo, Juan Contreras Ramos, Gloria Sicilia Argumedo, Cristina Fernández Mejía. Unidad de Genética de la Nutrición, Instituto de Investigaciones Biomédicas, UNAM
M-70	<b>Early differential immunoregulation in acute lung injury induced by systemic inflammatory response syndrome or sepsis.</b> Janette Arias Escobedo, Sonia Ivonne Rodríguez Ruiz, Faber Ignacio García Lorenzo, Marco Antonio Checa Caratachea, Joaquin Alejandro Zuñiga Ramos, Edgar Zenteno Galindo, Francisco Javier Urrea Ramírez. Departamento de Bioquímica, Instituto Nacional de Enfermedades Respiratorias Ismael Cosio Villegas
M-71	<b>Cardiovascular risk factors defined by the global scale Framingham in a group of adults residing in Mexico City.</b> Vera Rosales María del Carmen, Aguilar Sánchez Mariana, Huerta Huerta Raquel, Núñez Cardona Ma. Teresa. Universidad Autónoma Metropolitana. Unidad Xochimilco
M-72	<b>Relationship between total cholesterol and triglycerides levels with body mass index and dietary ingest in a group of workers.</b> Vera Rosales Ma. Del Carmen, López Flores Alejandra, Trejo Sánchez Hazaél, Huerta Huerta Raquel, Núñez Cardona Ma. Teresa. Universidad Autónoma Metropolitana
M-73	<b>HIV: discrimination and stance young university people infected.</b> Olga Selene Vidal Lucas, Blanca Estela Trejo Sánchez, Lucas López Segovia. Universidad Juárez Autónoma de Tabasco
M-74	<b>Comparative side effects of two inhibitors of the 3-Hydroxy-3-Methylglutaryl Coenzyme-A Reductase: atorvastatin and rosuvastatin, when administered in high doses to rodents with a cholesterol rich diet.</b> Alma Mileira Zetina Esquivel, Isela Esther Juárez Rojo, Andrés Eliud Castell Rodríguez, José Luis Blé Castillo, Ligia Araceli Barragán Lizama, Rodrigo Miranda Zamora, Juan Cuauhtémoc Díaz Zagoya. Ciencias de la Salud. Universidad Juárez Autónoma de Tabasco
M-75	<b>Antioxidant capacity and physicochemical characteristics of wine from jamaica (<i>Hibiscus sabdariffa</i>, L.)</b> Julia Verónica Hernández Madrigal, Laura Virginia Madrigal Ambriz, Joel Vazquez Galindo. Facultad de Ciencias Químicas. Universidad de Colima

M-76	<b>Proteomic analysis of exosomes from serum of breast cancer women and cytokines-stimulated cell lines.</b> <i>Felipe de Jesús Palacios Castañeda, Israel Romo Cruz, Gloria León Ávila, Juan Pedro Luna Arias, Armando Pérez Rangel, José Manuel Hernández Hernández. CINVESTAV Zacatenco</i>
M-77	<b>Leishmanicidal drug design. Induce fit studies to find potential inhibitors against arginase from <i>Leishmania Mexicana</i>.</b> <i>María Irene Betancourt Conde, Alondra Chaidez Avila, Alejandra Guadalupe Vázquez Raygoza, José Luis Urbán Martínez, Daniel Enríquez Mendiola, Claudia Isela Avitia Domínguez, Antonio Romo Mancillas, Alicia Hernández Campos, Alfredo Téllez Valencia. Facultad de Medicina, Universidad Juárez del Estado de Durango</i>

*Wednesday*

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### 8:30 – 10:30 Plenary Lectures

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8:30 – 9:30 Influenza virus-host interactions  
**Adolfo García Sastre**  
Icahn School of Medicine at Mount Sinai. New York, NY. USA

Chair: *Jorge Luis Folch*  
Universidad Autónoma del Estado de Morelos

9:30 – 10:30 mTOR and Regulation of Cell Growth  
**John Blenis**  
Sandra and Edward Cancer Center. Weill Cornell Medicine. USA

Chair: *Roberto Sánchez Olea*  
Universidad Autónoma de San Luis Potosí

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10:30 – 11:00 Coffee break  
Foyer San Marcos Room

11:00 – 13:30 Technical Conferences  
San Marcos Room IV  
Chair: *Jorge Luis Folch Mallol*

11:00 – 11:30 UNIPARTS  
**Cultivo Celular 3D**  
*Javier Hernández Juárez*

11:30 – 12:00 GE HEALTHCARE  
**Usando Análisis Celular Multiparamétrico por microscopía de fluorescencia (HCA) y microscopía de Alta y Súper resolución para resolver preguntas biológicas**  
*Sandra Rosa Silva*

12:00 – 12:30 ACCESOLAB  
**Acclaro Sample Intelligence technology: how it works and how sample purity is important for downstream applications**  
*Voula Kodoianni*. Thermo Fisher

12:30 – 13:00 DIFRACCTIA  
**Mini PCR: Abriendo las puertas al análisis de ADN**  
*Hugo Arellano Santoyo*  
Harvard Medical School. Dana Farber Cancer Institute.  
Howard Hughes Medical Institute

13:00 – 13:30 BIORAD  
**Producción rápida de RNA químicos mediante cromatografía semipreparativa**  
*Adriana Vega Belmont*

## Concurrent Sessions

Wednesday November 9, 2016

11:00 – 13:30	<b>7 Immunology &amp; Parasitology San Marcos One Room</b>	<b>8 Microbiology &amp; Viruses San Marcos Two Room</b>	<b>9 Signal Transduction &amp; Cell Differentiation San Marcos Three Room</b>
	Chair: Mónica Valdez. Univ. Juárez Edo. Durango	Chair: Hortensia Silva. UABC	Chair: Héctor Riveros. Facultad de Medicina, UNAM
11:00-11:20	<b>Identification of potential pathogenic microorganisms in the tract of nymphs and canaries in captivity.</b> Mónica A. Valdez Solana, Ulrik H. Pedroza Dávila, Ariel Rodarte Ramírez, Cristina García De La Peña, Erick Sierra Campos. Facultad de Ciencias Químicas, Universidad Juárez del Estado de Durango	<b>Dynamics of the actin cytoskeleton and vesicle traffic in the lack of MYO-5 in <i>Neurospora crassa</i></b> Arianne Ramírez del Villar, Olga A. Callejas Negrete, Meritxell Riquelme, Rosa R. Mouriño Pérez. Centro de Investigación Científica y de Educación Superior de Ensenada	<b>Distinct phosphorylation patterns regulate α1D-adrenoceptor signaling and desensitization</b> Marco A. Alfonzo Méndez, Gabriel Carmona Rosas, Aurelio Hernández Méndez, David A. Hernández Espinosa, Ma. Teresa Romero Ávila, J. Adolfo García Sáinz. Instituto de Fisiología Celular, UNAM
11:20-11:40	<b>Fate of the host proteins internalized by cysticerci of <i>Taenia crassiceps</i>.</b> Jeanette Flores Bautista, José Navarrete Perea and Juan Pedro Laclette. Instituto de Investigaciones Biomédicas, UNAM	<b>Characterization of human papillomavirus type 33 variants circulating in San Luis Potosí, Mexico</b> Ricardo Uribe Rodríguez, Raúl De la Rosa Martínez, Víctor Sanabria Ayala, Mireya Sánchez Garza, Mariana Azanza Rodríguez, Rubén López Revilla. IPICYT	<b>Natural variation of the mutational effects of the Tor Pathway on yeast aging</b> J Abraham Avelar Rivas, Alejandro Juárez Reyes Alexander de Luna. Langebio. CINVESTAV Irapuato
11:40-12:00	<b>Defensin γ-Thionin from <i>Capsicum chinense</i> has Immunomodulatory Effects on Bovine Mammary Epithelial Cells during <i>Staphylococcus aureus</i> Internalization.</b> Ricardo Iván Medina Estrada, Joel Edmundo López Meza, Alejandra Ochoa Zarzosa. Universidad Michoacana	<b>Novel microbial species isolated from subaerial biofilms of stone monuments</b> Juan Vázquez Martínez, Juan Manuel Gutiérrez Villagómez, Génesis V. Buitimea Cantúa, Enrique Ramírez Chávez, Jorge Molina Torres. CINVESTAV Irapuato	<b>Damage-associated molecular patterns (DAMPs) and signalling during mechanical injury in filamentous fungi</b> Elizabeth Medina Castellanos, Meritxell Riquelme, Nick D. Read y Alfredo Herrera Estrella. National Laboratory of Genomics for Biodiversity
12:00-12:20	<b>Assessment of the antitumor and immunostimulatory activity of a commercial poultry vaccine.</b> Oscar Antonio Ortega Rivera, Schillberg Stefan, Raven Nicole, Del Toro Arreola Susana, Quintanar Stephano José Luis, Salinas Miralles Eva María. Universidad Autónoma de Aguascalientes	<b>Killer peptide targeting arrested cells.</b> Vladimir Juárez Arellano, Gabriel del Rio. Instituto de Fisiología Celular, UNAM	<b>Regulation of snon expression by TGFβ and GPCR signals in Hepatocytes</b> Diana Grisel Ríos López, Marina Macías Silva. Instituto de Fisiología Celular, UNAM

	<b>7 Immunology &amp; Parasitology San Marcos One Room</b>	<b>8 Microbiology &amp; Viruses San Marcos Two Room</b>	<b>9 Signal Transduction &amp; Cell Differentiation San Marcos Three Room</b>
	Chair: <i>Mónica Valdez Solana</i> Univ. Juárez Edo. Durango	Chair: <i>Hortensia Silva</i> UABC	Chair: <i>Héctor Riveros</i> Facultad de Medicina, UNAM
12:20-12:40	<b>Telomere repeat binding factors in expression of ehtrf-like proteins in H2O2 treated trophozoites of <i>Entamoeba histolytica</i>.</b> <i>Elisa Azuara Liceaga, Vanessa Díaz Helios, Cárdenas Hernández David, Hernández Álvarez Elizabeth, J Castañeda Ortiz, Jesús Valdés Flores, José Manuel Galindo Rosales Guillermina García Rivera, Esther Orozco, Bibiana Chávez Muguia, Abigail Betanzos Fernandez, Jesús Valdés Flores, Francisco J Rendón Gendarilla.</i> UACM	<b>Autophagy and senescence during the development of spinal cord and the differentiation of motoneurons.</b> <i>Jorge Antolio Domínguez Bautista, Susana Castro Obregón. Instituto de Fisiología Celular, UNAM</i>	<b>Molecular and biological characterization of TcVps26-Like of <i>Trypanosoma cruzi</i>.</b> <i>Margarita Rubio Ortiz, Santiago Martínez Calvillo y Rebeca Georgina Manning Cela.</i> CINVESTAV-IPN
12:40-13:00	<b>Structural characterization and cellular localization of Tv-PSP1, a perchloric acid-soluble protein of <i>Trichomonas vaginalis</i>.</b> <i>Alma Villalobos Osnaya, Georgina Garza Ramos, César Millán Pacheco, Iris N. Serratos, Arturo González Robles, Rossana Arroyo and María Elizabeth Álvarez Sánchez.</i> UACM	<b>Defective autophagy in Neuronal and Glial Senescence .</b> <i>Daniel Moreno Blas, Elisa G. Gorostieto Salas, Gabriel Muciño Hernández, Alexander M. Pommer Alba y Susana Castro Obregón.</i> Instituto de Fisiología Celular, UNAM	<b>Histamine Impairs Midbrain Dopamine Neuron Differentiation in Association to Modifications of Epigenetic DNA Marks.</b> <i>Fernanda Vargas Romero, Ernesto Soto Reyes, Rodrigo González Barrios, Lissania Guerra Calderas, Iván Velasco.</i> Instituto de Fisiología Celular-Neurociencias, UNAM
13:00-13:20	<b>Analysis of the adaptive immune response in mice with Chagas' disease treated with NIPOx-B.</b> <i>Carlos Wong Baeza, Claudia Albany Reséndiz Mora, Carla Elizabeth Landa Saldívar, Oscar Arturo Ángeles Manzano, Mayra Atzin Hernández León, María Isabel Baeza Ramírez, Carlos Wong Ramírez.</i> Instituto Politécnico Nacional	<b>Molecular analysis of the process of sarcopenia: Changes in muscle gene expression between young and older adults.</b> <i>Miguel Ángel Fonseca Sánchez, Yanelli Trujillo Cabrera, José de Jesús Rivera Sánchez, Gerardo Aristi Alberto Flores Luce, Gloria Queipo García.</i> Servicio de Medicina Genética, Hospital General de México Eduardo Liceaga	<b>Infected cells in root bean symbiotic nodules: an environment under controlled stress.</b> <i>Alejandra Zayas Del Moral, Georgina Estrada Navarrete, Xóchitl Alvarado Affantranger, Damián Martínez Reyes, Carmen Quinto and Federico Sánchez.</i> Instituto de Biotecnología, UNAM

13:30 – 15:30 Lunch

Free Time

*Thursday*

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**8:30 – 10:30 Plenary Lectures**

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8:30 – 9:30     The control of eukaryotic protein secretion by a novel pathway regulating glutathione traffic in and out of the endoplasmic reticulum

**Michel Toledano**

CEA Sciences Division. Institute of Biology and Technology Saclay. Integrative biology and molecular genetics unit. Oxidative Stress and Cancer Laboratory

Chair: *Alejandro de las Peñas*  
IPICYT

9:30 – 10:30     Mitochondrial bioenergetics and OXPHOS supercomplexes

**Oscar Flores Herrera**

Departamento de Bioquímica. Facultad de Medicina, UNAM

Chair: *Federico Martínez Montes*  
Facultad de Medicina, UNAM

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10:30 – 11:00    Coffee break

Foyer San Marcos Room

## Concurrent Sessions

Thursday November 10, 2016

11:00 – 13:30	<b>10 Systems Biology &amp; Bioinformatic</b>  San Marcos One Room	<b>11 Biotechnology</b>  San Marcos Two Room	<b>12 Genetic, Genetic Regulation &amp; Epigenetic</b>  San Marcos Three Room
	Chair: <i>Gabriel del Río</i> I. Fisiología Celular, UNAM	Chair: <i>Ramón Alberto Batista</i> Universidad Aut. Morelos	Chair: <i>Martha Calahorra</i> I. Fisiología Celular, UNAM
11:00-11:20	<b>Predicting multifunctional polypeptides using machine learning algorithms</b> <i>David Alejandro Castillo González</i> , Gabriel Del Río Guerra. Instituto de Fisiología Celular, UNAM	<b>Design of Multi-domain Proteins for Artificial Virus-like Supramolecular Nanoparticles</b> <i>Armando Hernández García</i> , Daniela Kraft, Paul Van Der Schoot and Renko de Vries. Northwestern University. Wageningen University	<b>Genome-wide profiling of DNA methylation in response to resveratrol identified novel therapeutic epigenetic targets in breast cancer cells.</b> <i>Rubiceli Medina Aguilar</i> , Carlos Pérez Plasencia, Patricio Gariglio, Jaime García Mena, José Ali Flores Pérez, Laurence A. Marchat, César López Camarillo. CINVESTAV IPN
11:20-11:40	<b>Finishing and validation of a lager beer yeast genome sequence using a BAC-based physical map, an hybrid approach</b> <i>Cintia Noemí Gómez Muñoz</i> , Riego Ruiz Lina, Montalvo Arredondo Javier, Pérez Ortega Esmeralda and Damas Buenrostro Luis. IPICYT	<b>Experimental strategies to enhance activity and stability of functional laccase from <i>Therrmus thermophilus</i></b> <i>Beatriz Miranda Zaragoza</i> , Paul Gaytán, Horacio Reyes Vivas, Enrique Rudiño Piñera, Claudia Rodríguez Almazán. Instituto de Biotecnología, UNAM	<b>Establishment of molecular basis of the classification of histone deacetylase</b> <i>Jazmín Eliana Murcia Garzón</i> , Gustavo Hernández Guzmán, Varinia López Ramírez, Juan Manuel González Prieto. Centro de Biotecnología Genómica, IPN
11:40-12:00	<b>Inter-chromosomal Transcriptional Regulation in Breast Cancer</b> <i>Jesús Espinal Enríquez</i> , Cristóbal Fresno, Guillermo de Anda, Enrique Hernández Lemus. Instituto Nacional de Medicina Genómica	<b>PH effect on growth and lipids accumulation in <i>Chlamydomonas reinhardtii</i></b> <i>Ana Erika Ochoa Alfaro</i> , Daniel Eugenio Gaytán Luna, Alejandro Rocha Uribe, Ruth Elena Soria Guerra. Facultad de Química, Universidad Autónoma de San Luis Potosí	<b>Expression pattern of miRNAs associated with the response to conventional treatment in patients with cervical cancer</b> <i>Abraham Pedroza Torres</i> , Oliver Millán Catalán, Yahir Alberto Loissell Baltazar, Carlos Pérez Plasencia. Instituto Nacional de Cancerología
12:00-12:20	<b>Visualization of F-actin <i>Trichoderma atroviride</i> during growth and mechanical injury</b> <i>Marisela Garduño Rosales</i> , Elizabeth Medina Castellanos, Olga A. Callejas Negrete, Alfredo Herrera Estrella and Rosa R. Mouríño Pérez. Microbiología, Centro de Investigación Científica y de Educación Superior de Ensenada	<b>Padlock probe-rolling circle amplification assays for the detection of high risk human papilloma viruses</b> <i>Lucía Orellana Escobedo</i> , Cindy Gómez Correa, Mireya Sánchez Garza, Rubén López Revilla. Departamento de Biología Celular, IPICYT	<b>DNA methylation profiling at a single locus of GNPDA2, PPARGC1α and LEPR genes from umbilical cord and the correlation analysis to maternal-fetal anthropometry in pregnancy.</b> <i>Erika Chavira Suárez</i> , Jorge Beltrán Montoya, Carmen Canchola Sotelo, Felipe Vadillo Ortega. Unidad de Vinculación Científica de la Facultad de Medicina, UNAM

	<b>10 Systems Biology &amp; Bioinformatic</b>  <b>San Marcos One Room</b>	<b>11 Biotechnology</b>  <b>San Marcos Two Room</b>	<b>12 Genetic, Genetic Regulation &amp; Epigenetic</b>  <b>San Marcos Three Room</b>
	Chair: <i>Gabriel del Rio</i> I. Fisiología Celular, UNAM	Chair: <i>Ramón Alberto Batista</i> Universidad Aut. Morelos	Chair: <i>Martha Calahorra</i> I. Fisiología Celular, UNAM
12:20-12:40	<b>Pore-forming mechanism of the antimicrobial peptide Pandinin-2.</b> <i>Ramón Garduño Juárez, José Luis Velasco Bolom.</i> Instituto de Ciencias Físicas, UNAM	<b>Exploring PD-1 and PD-I1 conformational landscape using molecular dynamics simulations.</b> <i>Marcelino Arciniega Castro.</i> Instituto de Fisiología Celular, UNAM.	<b>An adenosine derivative compound exerts a hepatoprotective effect involving epigenetic changes in CCl4 – induced rat cirrhosis.</b> <i>Jesús Rafael Rodríguez Aguilera, Carlos Alberto Guerrero Hernández, Rosario Pérez Molina, Carla Elizabeth Cadena del Castillo, Rebeca Pérez Cabeza de Vaca, Nuria Guerrero Celis, Adrián Rafael Murillo de Ozores, Brenda Elizabeth Miranda Hernández, Félix Recillas Targa, Victoria Chagoya de Sánchez.</i> Instituto de Fisiología Celular, UNAM
12:40-13:00	<b>Molecular signatures of mitochondrial metabolism shift in glioblastoma cell lines defined by principal component analysis.</b> <i>Leopoldo Gómez Caudillo, Fernando Minauro Sanmiguel, Ariadna Jazmín Ortega Lozano, Haydeé Rosas Vargas, Sergio Manuel Encarnación Guevara.</i> Unidad de Investigación Médica en Genética Humana, UMAE Pediatría CMNSXXI	<b>Induction of IL-10 and TGF-β in intestinal mucosa of rat by <i>Lactococcus lactis</i> IL-22 secretor. An alternative treatment of experimental liver cirrhosis.</b> <i>Alonso Prieto Javier, Michelle Andrea Delgado García, Martín Humberto Muñoz Ortega, Daniel Cervantes García, Odila Saucedo Cárdenas, Roberto Montes de Oca Luna, María de Jesús Loera Arias, Javier Ventura Juárez.</i> Universidad Autónoma de Aguascalientes	<b>Profile of cytokine/chemokines associated to Th17 response as distal progression markers in patients with Locally Advanced Cervical Cancer (LACC).</b> <i>Horacio Zamudio Meza, Jorge Fernández Retana, Miguel Rodríguez Morales, Jaime Coronel Martínez, David Francisco Cantú de León, Carlos Pérez Plasencia.</i> Instituto Nacional de Cancerología
13:00-13:20	<b>Towards the Inference of the Atomic Three-Dimensional Structural Models of Proteins Without Crystallography nor Resonance.</b> <i>Gabriel Del Rio Guerra, María Teresa Lara, Ricardo Corral, Víctor Martinell.</i> Instituto de Fisiología Celular, UNAM	<b>Effect of aging in lungs of normal and bleomycin-induced fibrosis analyzed in wild type and accelerated aging <i>Zmpste24</i> deficient mice.</b> <i>María del Jazmín Calyeca Gómez, Olmos Raúl, Jasso Rogelio, Gaxiola Miguel, López Otín Carlos, Selman Moisés and Pardo Annie.</i> Facultad de Ciencias, UNAM	<b>Cytotoxic Effects of Avocado Lipids (<i>Persea americana</i> var. <i>drymifolia</i>) on cancer cells.</b> <i>Mónica Lara Márquez, Marisol Báez Magaña, Patricia Nayeli Alva Murillo, Rafael Salgado Garciglia, Alejandra Ochoa Zarzosa y Joel Edmundo López Meza.</i> FMVZ. Universidad Michoacana de San Nicolás de Hidalgo

13:30 – 15:30 Lunch

## **Plenary Session 7**

Thursday November 10, 2016

15:30 – 18:00

San Marcos Room I

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### **Oxidative Stress in Life**

Chair: *Alejandro de las Peñas*

Instituto Potosino de Investigación Científica y Tecnológica

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- 15:30 – 16:00 Positive effects of (-)-epicatechin and epicatechin rich cocoa on indicators of mitochondrial biogenesis, oxidative stress in senile mice and in patients with type 2 diabetes

**Guillermo Ceballos**

Laboratorio Investigación integral cardiometabólicas. Sección de Posgrado, Escuela Superior de Medicina. IPN

- 16:00 – 16:30 Visualization of reactive oxygen species dynamics in developing zebrafish embryos

**Enrique Salas Vidal**, Mario Adán Mendieta Serrano, Francisco Javier Méndez Cruz, Luis Cárdenas, Mayra Antúnez Mojica, Laura Álvarez, Denhi Schanel Peraza, Hilda Lomelí Genética del Desarrollo y Fisiología Molecular, Instituto de Biotecnología. UNAM

- 16:30 – 17:00 The several faces of the P2X7 receptor: a cation channel that triggers reactive oxygen species production, cell death and interleukin production

**Jorge Arreola**

Physics Institute, Universidad Autónoma de San Luis Potosí

- 17:00 – 17:30 Reactive oxygen species as key regulators of polar growth and symbiosis

**Luis Cárdenas**, Fernando Lara, Ramsés García Niño, Alejandra Hernández Barrera, Ana Velarde-Buendía, Rocío Pérez, Rosana Sánchez, Johnson E, Heng Ming Whu, Federico Sánchez, Carmen Quinto, Alice Cheung  
Instituto de Biotecnología, UNAM

## Plenary Session 8

Thursday November 10, 2016

15:30 – 18:00

San Marcos Room II

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### Bioenergetic

Chair: *Soledad Funes*

Instituto de Fisiología Celular, UNAM

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- 15:30 – 16:00 Peroxisome and mitochondrial dynamics during sexual development of the fungus *Podospora anserina*  
**Leonardo Peraza Reyes**, Jorge Luis CastilloCanizález, Harumi Takano-Rojas y Fernando Suaste Olmos  
Instituto de Fisiología Celular, UNAM

- 16:00 – 16:30 Mitochondrial proteomic analysis during development of chemically induced hepatocellular carcinoma in rats: an evolutionary perspective  
**Rafael Montiel**, J. Noé GarcíaChávez, Hilda E. RamosAboites, Verónica R. Vázquez Garzón, Christian E. Martínez Guerrero, Christian LonaArrona, Saúl VillaTreviño  
LANGEBIO CINVESTAV Irapuato

- 16:30 – 17:00 Anti-mitochondrial therapy against malignant tumors  
**Sara Rodríguez Enríquez** and Rafael Moreno-Sánchez  
Departamento de Bioquímica, Instituto Nacional de Cardiología

- 17:00 – 17:30 Systematic identification of cellular-aging factors and dietary-restriction effects  
**Alexander de Luna**, Sergio E. Campos, Erika Garay & Alejandro Juárez-Reyes  
LANGEBIO CINVESTAV Irapuato

## Plenary Session 9

Thursday November 10, 2016

15:30 – 18:00

San Marcos Room III

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### Emerging Viruses

Chair: *Carlos Arias Ortiz*

Instituto de Biotecnología, UNAM

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15:30 – 16:00 Environmental and biological drivers for viral infection distribution and disease occurrence

**Gerardo Suzán**

Facultad de Medicina Veterinaria y Zootecnia. UNAM

16:00 – 16:30 *Aedes aegypti* immune response against dengue virus and other pathogens

**Humberto Lanz Mendoza**, Salvador Hernández Martínez

Center for Research on Infectious Diseases, National Institute of Public Health

16:30 – 17:00 Cross reactivity between dengue virus and zika viruses: consequences for ZIKA virus pathogenesis and prevention

**Juan Ernesto Ludert**

Departamento de Infectómica y Patogénesis Molecular. CINVESTAV

17:00 – 17:30 The ZIKA virus: epidemiology and pathogenesis

**Rosa María del Ángel**

Departamento de Infectómica y Patogénesis Molecular. CINVESTAV

18:00 – 20:00 Poster Session 3

GR GENETIC, EPIGENETIC AND GENETIC REGULATION

MV MICROBIOLOGY AND VIRUSES

## GENETIC, EPIGENETIC AND GENETIC REGULATION

<b>GR-1</b>	<b>Association of single nucleotide polymorphisms of the APLN, APLNR and MTHFR genes with the presence of essential hypertension in postmenopausal Yucatecan mestizo women.</b> Jennifer Alcántara Blancarte, Thelma Canto Cetina, Javier Cano, Rosa Esteban, Sergio De los Santos, Patricia Canto, Ramón Mauricio Coral Vázquez. Facultad de Medicina, UNAM
<b>GR-2</b>	<b>Phenotypic characterization of the maize <i>med12</i> mutants.</b> Ana Laura Alonso Nieves, Tania Núñez Ríos, Carol Martínez Camacho, Stewart Gillmor, Ruairidh Sawers. LANGEBIO, CINVESTAV Irapuato
<b>GR-3</b>	<b>Identification of Lectin from teosinte coleoptile (<i>Zeadiploperennis</i>).</b> Jaquelina Alvarado Gil, Carlos Alberto Matías Cervantes, Nora Hilda Rosas Murrieta, Eduardo Pérez Campos and Margarito Martínez Cruz. Instituto Tecnológico de Oaxaca
<b>GR-4</b>	<b>Evaluation of CDKN3 in cell cycle involvement in cell lines derived from cervical cancer.</b> Erika Anabel Alvarado Silva, Eira Valeria Barrón Palma, Maura Guadalupe Bautista Huerta, América Gutiérrez Castro, Angel Tonatiuh Salazar Anzures, Jaime Berumen Campos. Unidad de Medicina Genómica, Hospital General de México "Dr. Eduardo Liceaga"
<b>GR-5</b>	<b>Nuclear RNA extraction as a way to study lncRNAs in <i>Ustilago Maydis</i>.</b> Estela Anastacio Marcelino, Erick Accocatl Juárez, Antonio Sampedro Luna, Candelario Vázquez Cruz, Ma. Patricia Sánchez Alonso. Instituto de Ciencias, Universidad Autónoma de Puebla
<b>GR-6</b>	<b>Tumor suppressor miR-29c regulates radioresistance in lung cancer cells.</b> Elena Aréchaga Ocampo, Claudia H. Gonzalez De la Rosa, Isidro X. Perez Añorve, Reynalda Roldan Perez, Ali Flores Perez, Omar Peña Curiel, Oscar Ángeles Zaragoza, Nohra E. Beltran Vargas, Rosalva Rangel Corona, Nicolas Villegas Sepulveda. Universidad Autónoma Metropolitana Unidad Cuajimalpa
<b>GR-7</b>	<b>Functional subfunctionalization of branched chain amino transferases through diversification of transcriptional regulators and chromatin organization in the yeast <i>Saccharomyces cerevisiae</i>.</b> Stefany Argueta Zepeda, James González, Geovani López, Dariel Márquez, Carlos Campero Basaldua, Joseph Strauss, Lina Riego Ruiz and Alicia González. Instituto de Fisiología Celular, UNAM
<b>GR-8</b>	<b>Genomic and functional studies of miRNA regulation of <i>Arabidopsis</i> embryogenesis.</b> Alma Armenta Medina, R. Scott Poethig and Stewart Gillmor. LANGEBIO. CINVESTAV Irapuato
<b>GR-9</b>	<b>Association of <i>VDR</i>, <i>KLOTHO</i>, <i>CYP27B1</i>, <i>PTPN22</i> and <i>AGTR2</i> SNPs with clinical characteristics in turner syndrome patients.</b> Rehotbevely Barrientos, Leda Torres, José Velázquez, Camilo Villarroel, Silvia Sanchez, Nelly Altamirano, Sara Frias. Instituto Nacional de Pediatría
<b>GR-10</b>	<b>MiR34a as possible regulator of ubiquitin ligase E6AP in a model of HPV18 E6 overexpression.</b> Bautista Isidro Luis Osvaldo, García Castillo Verónica, López Urrutia Eduardo, Pérez Plasencia Carlos. Unidad de Biomedicina Facultad de Estudios Superiores Iztacala, UNAM
<b>GR-11</b>	<b>Risk factors associated with lack of weight reduction in morbidly obese patients.</b> Tania Berenice Bazán Soto, Andy Michel Romero Nieves, Etual Espinosa, Rodolfo Rivas Ruiz, Claudia Ramírez Rentería, Mario Molina Ayala, Moisés Mercado, Osvaldo Daniel Castelán Martínez. FES Zaragoza, UNAM
<b>GR-12</b>	<b>Gene expression profile of HSP90AA1 y HSP90AB1 in clear renal cell carcinoma (CRCC) and clinical implications.</b> Brenda Larissa Calvo Hernández, Nadia Aglae Rangel Gauna, Gpe. Lizeth Gutiérrez Murguía, María Guadalupe Gracia Muñoz, Luis Alonso Herrera Montalvo, Carlo César Cortés González. Instituto Nacional de Cancerología
<b>GR-13</b>	<b>Expression profile of microRNAs in small cell lung cancer tumors.</b> María de los Ángeles Carlos Reyes, J Sullivan Lopez Gonzalez, Nayeli Ramírez Torres, Cesar Rivero Luna, Concepción Ortega Carrillo, Raúl García Vazquez, Raquel Echeverría Zepeda, Carlos Palma Flores, Ali Flores Pérez and Cesar Lopez Camarillo. Instituto Nacional de Enfermedades Respiratorias Ismael Cosio Villegas
<b>GR-14</b>	<b>Evaluation of gamma and delta tubulins in cervical cancer progression.</b> Ricardo Castillo Velazquez, Susana López Robles, Claudia Araceli Reyes Estrada, Rosalinda Gutiérrez Hernández and Jesús Adrián López. Universidad Autónoma de Zacatecas "Francisco García Salinas"
<b>GR-15</b>	<b>A <i>Phaseolus vulgaris</i> annexin modulates the rhizobial infection and the nodulation process.</b> Janet Carrasco Castilla, Yolanda Ortega Ortega, David Jáuregui, Marco A. Juárez Verdayes, Rosana Sánchez López, Elizabeth Monroy, Noreide Nava, Olivia Santana, Carmen Quinto. Instituto de Biotecnología. UNAM

<b>GR-16</b>	<b>Regulator ThnR and ABC transporter are necessary to immunity of <i>Bacillus thuringiensis</i> against Thurincin H(m).</b> <i>Luz Edith Casados Vázquez, José Eleazar Barboza Corona.</i> Universidad de Guanajuato Campus Salamanca
<b>GR-17</b>	<b>Analysis of expression of TFIIB1 transcription factor in <i>Arabidopsis thaliana</i> and <i>Phaseolus vulgaris</i>.</b> <i>Saraí Castro Bustos, Augusto Ramírez Trujillo, Nancy Sofía Hernández Bueno, Víctor Manuel Bustos Zagal, Mario Ramírez Yáñez, Ramón Suárez Rodríguez.</i> Centro de Investigación en Biotecnología. Autónoma del Estado de Morelos
<b>GR-18</b>	<b>Preliminary study about the effect of maternal obesity on global DNA methylation in placenta.</b> <i>Violeta Castro Leyva, Felipe Vadillo Ortega, María del Carmen García de León Méndez, Erika Chavira Suárez.</i> Departamento de Bioquímica, Facultad de Medicina, UNAM
<b>GR-19</b>	<b>Bariatric surgery-associated DNA methylation remodeling, in adipose tissue from obese patients.</b> <i>Federico Centeno Cruz, Ernesto Sánchez, Guillermo Garduño, Paulina Baca Peynado, Angélica Martínez, Carlos Zerrweck, Francisco Barajas, Lorena Orozco.</i> Laboratorio de Inmunogenómica y Enfermedades Metabólicas. Instituto Nacional de Medicina Genómica
<b>GR-20</b>	<b>Transcriptomic analysis of the adaptation of <i>Ustilago maydis</i> to changes of pH.</b> <i>Juan Antonio Cervantes Montelongo, Elva Teresa Aréchiga Carvajal, José Ruiz Herrera.</i> CINVESTAV Irapuato
<b>GR-21</b>	<b>The role of dAtrx ATPase in the telomeric maintenance of <i>Drosophila melanogaster</i>.</b> <i>Joselyn Cristina Chávez Fuentes, Vanessa Bahena Villamil, Juan Manuel Murillo, América Castañeda Sorbitrán, Rosario Rodríguez Arnaiz, Mario Zurita Ortega, Viviana Valadez Graham.</i> Departamento de Genética del Desarrollo y Fisiología Molecular. Instituto de Biotecnología, UNAM
<b>GR-22</b>	<b>Ribosomal protein S1 is required for recognition of downstream adenine- or uracil-rich mRNAs by 30S subunit.</b> <i>Juan Carlos Cifuentes Goches, Olvera Maturano Nubia Jazmín, Salinas Tobón María del Rosario, Guarneros Gabriel, Hernández Sánchez Javier.</i> CINVESTAV Zacatenco
<b>GR-23</b>	<b>Analysis of the regulation exerted by mir-26a on the <i>rb1</i> and <i>apc</i> messengers associated to colorectal cancer.</b> <i>Carlos Contreras Romero, E. López Urrutia, V. García Castillo, C. Pérez Plasencia.</i> FES Iztacala, UNAM
<b>GR-24</b>	<b>The strands 5p and 3p of the members of the family miR-34 have differential effects on SiHa cell proliferation and migration.</b> <i>Sergio Córdova Rivas, José Luis Ruiz Carrillo, Ruth Cristina Rodríguez Garces, Hiram Hernández López, Jesús Adrián López.</i> Universidad Autónoma de Zacatecas
<b>GR-25</b>	<b>mir- 26a, epigenetic regulator associated with colorectal cancer.</b> <i>Coronel Hernández Jossimar, García Castillo Verónica, López Urrutia Eduardo, Pérez Plasencia Carlos.</i> FES Iztacala, UNAM
<b>GR-26</b>	<b>The role of Tmk3-Atf1 pathway on blue light responses in <i>Trichoderma atroviride</i>.</b> <i>Víctor Alejandro Correa Pérez, Roberto Álvarez Martínez, Fidel Landeros Jaime, José Antonio Cervantes Chávez, Alfredo Herrera Estrella, Edgardo Ulises Esquivel Naranjo.</i> Facultad de Ciencias Naturales, Universidad Autónoma de Querétaro
<b>GR-27</b>	<b>Assessing the level of expression of mir 132 and 203, and the methylation status of the promoter region of this miRNAs in cell lines of breast cancer and their role as posttranscriptional regulators repair genes DNA damage BRCA-1, BRCA -2 and ATM.</b> <i>Pablo Cortés Pérez, López Urrutia Eduardo, García Castillo Verónica, Pérez Plasencia Carlos.</i> FES Iztacala, UNAM
<b>GR-28</b>	<b>Hyperglycemic effect on proliferation and apoptosis of human umbilical cord mesenchymal stem cells from children of normoglycemic and diabetic mothers.</b> <i>Sandra Rocío Cruz Bárcenas, Josiff S. Flores Reyes, Oscar Pérez Pérez, Ismael Mancilla Herrera, Mauricio Domínguez Castro, Higinio Estrada Juárez, Enrique Reyes Muñoz, Mónica Aguinaga Ríos, Patricia Grether González, José Romo Yáñez.</i> Facultad de Medicina, Instituto Nacional de Perinatología "Isidro Espinosa de los Reyes"
<b>GR-29</b>	<b>Biological activation of hypoxia responsive elements in the transcriptional regulation of the CYP2B6 in medulloblastoma cells.</b> <i>Yazareth Julián Cruz Villegas, Jonathan Alcántar Fernández, Jesús Valencia Cervantes, Juan Miranda Ríos, Rosa Angélica Castillo Rodríguez, Víctor Manuel Dávila Borja.</i> Laboratorio de Oncología, Instituto Nacional de Pediatría
<b>GR-30</b>	<b>Identification of genes involved in the pathogenicity of the plant pathogenic fungus <i>Macrophomina phaseolina</i> in different hosts.</b> <i>Juan Angel Cuevas Moreno, Lucila Méndez Morán, Juan Manuel González Prieto.</i> Centro de Biotecnología Genómica. Instituto Politécnico Nacional

<b>GR-31</b>	<b>Evolutionary history of the histone acetyl transferase Gcn5.</b> Juan Angel Cuevas Moreno, Jazmín Eliana Murcia Garzón, Juan Manuel González Prieto. Centro de Biotecnología Genómica. Instituto Politécnico Nacional
<b>GR-32</b>	<b>Role of translation initiation factors eIF4E and eIFiso4E during cold stress response in <i>Arabidopsis thaliana</i>.</b> Kenia Salazar Díaz, Tzvetanka Dimitrova Dinkova. Facultad de Química, UNAM
<b>GR-33</b>	<b>Functional analysis of miR-196b and its role in breast cancer radioresistance.</b> Raquel Echavarría Zepeda, Elena Arechaga Ocampo, Abraham Pedroza Torres, Carlos Pérez Plascencia, Laurence A. Marchat, César López Camarillo. Posgrado en Ciencias Genómicas. UACM
<b>GR-34</b>	<b>Involvement of Pygopus2 on the regulation of migration and invasion capabilities of cervical cancer cell lines.</b> Luis Manuel Espinosa Sánchez, García Castillo Verónica, López Urrutia Eduardo and Pérez Plasencia Carlos. FES Iztacala, UNAM
<b>GR-35</b>	<b>Design and construction of an inducible system locus-directed to produce DSB in <i>Giardia duodenalis</i>.</b> Sara Espinoza Corona, Rosa María Bermúdez Cruz. CINVESTAV Zacatenco
<b>GR-36</b>	<b>Twin a Component of the CCR4-NOT Complex, is involved in Thermal Nociception in <i>Drosophila</i>.</b> Iván Fernández Cruz, Enrique Reynaud Garza. Instituto de Biotecnología, UNAM
<b>GR-37</b>	<b>Transcriptional profiling of the female reproductive tract differentiation process in mice.</b> Fernando Fernández Ramírez, Alejandro Marmolejo Valencia, Mónica Ruíz Rosario, Ruth Ruiz Esparza Garrido, Ana Claudia Velázquez Wong, Omar Sepúlveda Robles, Diego Julio Arenas Aranda, Susana Kofman, Horacio Merchant Larios. Unidad de Genética. Hospital General de México "Dr. Eduardo Liceaga"
<b>GR-38</b>	<b>Cellular localization of 5S rRNA genes and transcripts in the parasite <i>Leishmania major</i>.</b> Luis Enrique Florencio Martínez, Rodrigo Moreno Campos, Rebeca Manning Cela, Santiago Martínez Calvillo. FES Iztacala, UNAM
<b>GR-39</b>	<b>Molecular characterization of the effect of ovarian-specific transcription factors on the activity of <i>Fbxw15</i> promoter.</b> Laura Ivette Flores Alonso, Luis Alberto García Ávila, Norma Angélica Oviedo de Anda, Ricardo Félix Grijalva, Elsa de la Chesnaye Caraveo. Hospital de Cardiología, CMN SXXI, IMSS. CINVESTAV Zacatenco
<b>GR-40</b>	<b>Deciphering the Role of H3K9 Methylation in Plant Embryo Development.</b> Marcelina García Aguilar, Daniel Lepe Soltero, Dao quan Xiang, Raju Datla C., Stewart Gillmor. LANGEBIO.CINVESTAV Irapuato
<b>GR-41</b>	<b>Construction of a CRISPR/Cas9 system for gene editing in <i>Giardia duodenalis</i>.</b> Eduardo García Huerta, Rosa María Bermúdez Cruz. Genética y Biología Molecular, CINVESTAV Zacatenco
<b>GR-42</b>	<b>The role of MicroRNAs in <i>Marchantia polymorpha</i> during water deficit.</b> Alma Jenny García Mejía, Damaris Godínez Vidal, Mario Arteaga Vázquez, Alejandra Covarrubias Robles, José Luis Reyes Taboada. Instituto de Biotecnología, UNAM
<b>GR-43</b>	<b>Identification of production of alkyl-quinolones molecules by <i>Pseudomonas aeruginosa</i> strains with an atypical quorum sensing system.</b> Selene García Reyes, Abigail González Valdez, Estefanía Morales Ruiz, Miguel Cocotl Yáñez, Samuel Gómez Pérez, Gloria Soberón Chávez. IIB. UNAM
<b>GR-44</b>	<b>MicroRNAs profiling identify miR-143 as a novel predictor of pathological complete response to chemotherapy in triple negative breast cancer.</b> Raúl García Vázquez, Erika Ruiz García, Sergio Rodríguez Cuevas, Laurence A. Marchat, Ángeles Carlos Reyes, César López Camarillo. Posgrado Ciencias Genómicas, Universidad Autónoma de la Ciudad de México
<b>GR-45</b>	<b>A comparative analysis of perinatal disorders and DNA methylome profiling at early childhood: implementation of a pilot study.</b> Joaquín Gloria Piña, Felipe Vadillo Ortega, Erika Chavira Suárez. FES Cuautitlán, UNAM
<b>GR-46</b>	<b><i>Saccharomyces cerevisiae</i> longevity by depletion of Leu3 is Mediated by Gcn4.</b> James González Flores, Stefany Argueta, Geovani López, and Alicia González. Instituto de Fisiología Celular, UNAM
<b>GR-47</b>	<b>Functional analysis of the EhTRF-like III protein of <i>Entamoeba histolytica</i>.</b> Díaz Medina V, Álvarez Hernández V, Rendón Gandarilla FJ, Cárdenas Hernández H, Castañeda Ortiz EJ, Valdés Flores J, Orozco E, García Rivera G, Betanzos Fernández A, Cárdenas E, Azuara Liceaga E. Posgrado en Ciencias Genómicas, Universidad Autónoma de la Ciudad de México

<b>GR-48</b>	<b>The miR-143/145 cluster regulates the actomyosin cytoskeleton dynamics in prostate cancer cells.</b> Alejandro Gonzalez Torres, Eric Sulpice, Stephanie Combe, Luis Marat Alvarez Salas, Xavier Gidrol. CINVESTAV Zácatenco
<b>GR-49</b>	<b>Identification of the AtPAO2 uORF peptide in <i>Arabidopsis</i> seedlings.</b> María de la Luz Guerrero González, María Azucena Ortega Amaro, Diana Sanchez Rangel, Itzell E. Hernández Sánchez, Pablo Delgado Sánchez, Margarita Rodríguez Kessler and Juan Francisco Jiménez Bremont. Universidad Autónoma de San Luis Potosí
<b>GR-50</b>	<b>Inhibition of primary myoblast differentiation by <i>Trichinella spiralis</i> muscle larvae excretory-secretory products.</b> Lizbeth Hernández Ancheyta, María del Rosario Salinas Tobón, Javier Hernández Sánchez. Genética y Biología Molecular, CINVESTAV Zácatenco
<b>GR-51</b>	<b>Transcriptional regulation under normal and modified wort fermentation of two yeast strains used in beer industry.</b> Daniel Hernández Bañuelos, Cintia Gómez Muñoz, Esmeralda Pérez Ortega, Luis Cástulo Damas Buenrostro, Lina Raquel Riego Ruiz. IPICyT
<b>GR-52</b>	<b>Functional characterization of <i>Candida tropicalis</i> MNN4, OCH1 and PMR1.</b> Marco Josué Hernández Chávez, Héctor Manuel Mora Montes, Bernardo Franco Bárcenas. Departamento de Biología, DCNyE. Universidad de Guanajuato
<b>GR-53</b>	<b>Functional analysis of the silencing protein Abf1 in the fungal pathogen <i>Candida glabrata</i>.</b> Grecia Hernández Hernández, Leonardo Castañedo Ibarra, Alejandro De Las Peñas Nava and Irene Castaño Navarro. Instituto Potosino de Investigación Científica y Tecnológica, A.C.
<b>GR-54</b>	<b>The role of SERCA pumps in the resveratrol-mediated antitumoral effect in breast cancer cells.</b> Eduardo de Jesús Izquierdo Torres, Ángel Zarain Herzberg, Gabriela Rodríguez Rodríguez. Laboratory of Molecular Biology, Department of Biochemistry, Faculty of Medicine, UNAM
<b>GR-55</b>	<b>Transcriptional factor TFIIB1 is involved in the response to osmotic stress in <i>Arabidopsis thaliana</i>.</b> Dulce Jared Jaime Gallardo, José Antonio Miranda Ríos, Mario Ramírez Yáñez, Nancy Sofía Hernández Bueno, José Augusto Ramírez Trujillo, Ramón Suárez Rodríguez. Centro de Investigación en Biotecnología. Universidad Autónoma del Estado de Morelos
<b>GR-56</b>	<b>Role of Gln3, Gat1 and Ure2 in the regulation of nitrogen metabolism in <i>Lachancea kluyveri</i>.</b> José Ángel Jiménez Benítez, Francisco Pérez de los Santos, Lina Raquel Riego Ruiz. Instituto Potosino de Investigación Científica y Tecnológica
<b>GR-57</b>	<b>Analysis of small RNA biogenesis machinery expression in maize somatic embryogenesis induction.</b> Vasti Thamara Juárez González, Tzvetanka Dimitrova Dinkova. Departamento de Bioquímica, Facultad de Química. UNAM
<b>GR-58</b>	<b>Molecular characterization of the SIR complex in <i>Candida glabrata</i> clinical isolates.</b> Osney Leiva Pelaez, Alejandro de las Peñas Nava, Irene Castaño Navarro. Instituto Potosino de Investigación Científica y Tecnológica
<b>GR-59</b>	<b>Basidiocarp development in <i>Ustilago maydis</i>: A transcriptional approach.</b> Claudia Geraldine León Ramírez, José Luis Cabrera Ponce, Domingo Martínez Soto, José Alejandro Sánchez Arreguín, and José Ruiz Herrera. Departamento de Ingeniería Genética, CINVESTAV Irapuato
<b>GR-60</b>	<b>Patterns of gene activation in hybrid embryos of <i>Arabidopsis thaliana</i>.</b> Daniel Lepe Soltero, Cei Abreu Goodger & Stewart Gillmor. Unidad de Genómica Avanzada. LANGEBIO. CINVESTAV Irapuato
<b>GR-61</b>	<b>Does the accumulation of trehalose in <i>Ustilago Maydis</i> change the virulence and the response to stress?.</b> Alonso López Cabrera, Edgardo Ulises Esquivel Naranjo, Fidel Landeros Jaime, José Antonio Cervantes Chávez. Universidad Autónoma de Querétaro
<b>GR-62</b>	<b>Expression profiles of tasiR-ARFs pathway-related genes during maize somatic embryogenesis.</b> Brenda Anabel López Ruiz, Tzvetanka Dimitrova Dinkova. Departamento de Bioquímica. Facultad de Química, UNAM
<b>GR-63</b>	<b>Locus-specific Rxrα promoter methylation analysis and its expression in the offspring's umbilical cord from high-fat diet-induced obese rat.</b> Itzel Ivonn López Tenorio, Elena Zambrano González, Luis Reyes Castro, Aarón Domínguez López, Felipe Vadillo Ortega, Erika Chavira Suárez. Escuela Superior de Medicina, IPN

<b>GR-64</b>	<b>Understanding <i>Candida glabrata</i> resistance to oxidative stress through CTA1 gene regulation.</b> Gabriel Guillermo Luna Arvizu, Israel Cañas Villamar, Irene Castaño Navarro, Alejandro de las Peñas Nava. IPICYT
<b>GR-65</b>	<b>Stem loop: Molecular technique used for isolation and identification of small RNAs from <i>Giardia lamblia</i>.</b> Jaime Marcial Quino, Saúl Gómez Manzo, Edgar Sierra Palacios, Erick Alcaraz Carmona, Yadira Yazmín Cortés Morales, Estefania Millán Ramírez de Arellano, Laura Eloisa Morales Luna, Karina Pérez Nuñez, Edson Jiovany Ramírez Nava, María Fernanda Trejo Martínez, Horacio Reyes Vivas. Instituto Nacional de Pediatría
<b>GR-66</b>	<b>Characterization of KH-QUA2 domain of the U2 snRNP auxiliary factor 84 kDa (U2AF84) of <i>Entamoeba histolytica</i>.</b> Ricardo Martínez Baltazar, Lorena Palacio Molina, Carlos Ortúño Pineda, Nicolás Villegas Sepúlveda, María Saraí Mendoza Figueroa, Emmanuel Reyes Castro, José Manuel Galindo Rosales, Jesús Valdés Flores. CINVESTAV, IPN
<b>GR-67</b>	<b>Sweet taste perception genes: TAS1R2 and GLUT2 polymorphisms, carbohydrate intake and nutritional state in Mexican adults.</b> José Darío Martínez Ezquerro, Isabel Miriam Adriano Quintana, Deyanira Escalante Bautista, Beatriz Rosales Rodríguez, Haydeé Rosas Vargas. Centro Medico Nacional "Siglo XXI" IMSS
<b>GR-68</b>	<b>Analysis of phasin-like protein on Polyhydroxy butyrate production in <i>Azospirillum brasiliense</i> Sp7.</b> María de los Ángeles Martínez Martínez, Itzel Anaya Benítez, Lucía Soto Urzúa, Luis Javier Martínez Morales. Universidad Autónoma de Puebla
<b>GR-69</b>	<b>Gene regulation in <i>Ustilago maydis</i> by a MAPK pathway involved in pathogenesis, mating and morphogenesis.</b> Domingo Martínez Soto, José Ruiz Herrera. CINVESTAV. Unidad Irapuato
<b>GR-70</b>	<b>Identification of low molecular weight excretory-secretory products from <i>Trichinella spiralis</i> muscle larvae potentially involved in the inhibition of myotube formation in primary myoblast cultures.</b> Krystal Maya Maldonado, María del Rosario Salinas Tobón, Javier Hernández Sánchez. CINVESTAV. Zacatenco
<b>GR-71</b>	<b>Physiological roles for MXL-3/MAX as lipogenic factor that modulate organismal fat accumulation.</b> Fanny Mejía Martínez, Berenice Franco Juárez, Elizabeth Moreno Arriola, Alain de Jesús Hernández Vázquez, Antonio Velázquez Arellano, Karla Carvajal, Daniel Ortega Cuellar. Instituto Nacional de Pediatría
<b>GR-72</b>	<b>Germ-line BRCA 1 and 2 mutations in breast and ovarian cancer patients.</b> Oliver Millán Catalán, Abraham Pedroza Torres, Eduardo López Urrutia, Carlos Pérez Plasencia. Instituto Nacional de Cancerología
<b>GR-73</b>	<b>Functional interactions of NFAT, NF-κB and Sp1 proteins regulate the expression of IL-10 in U937 monocytes.</b> Lourdes Millán Pérez Peña, Jorge A. Calzada Martínez, Sandra R. Reyes Carmona, Nora H. Rosas Murrieta, Irma P. Herrera Camacho, Eduardo M. Salinas Stefanon, Thomas Scior. Instituto de Ciencias, Universidad Autónoma de Puebla
<b>GR-74</b>	<b>Postranscriptional regulation of Cyclin D1 protein in cells transfected with E6 oncogene from HPV type 6, 16, 18, and 52.</b> Vicente Morales García, Adriana Contreras Paredes, Alma Chávez Blanco, Daniel Jímenez Martínez, Erick De la Cruz Hernández. Universidad Juárez Autónoma de Tabasco
<b>GR-75</b>	<b>Molecular classification of histonemetyl transferases.</b> Jazmín Eliana Murcia Garzón, Gustavo Hernández Guzmán, Luis José Delaye Arredondo, Juan Manuel González Prieto. Centro de Biotecnología Genómica, IPN
<b>GR-76</b>	<b>Phenotypic and transcriptomic analysis of the <i>atx1-1<sup>setm</sup></i> mutant affected in lateral root development.</b> Selene Napsucialy Mendivil, Svetlana Shishkova, Joseph G. Dubrovsky. Instituto de Biotecnología, UNAM
<b>GR-77</b>	<b>The TIME FOR COFFEE gene participates in the hydrotropic response regulation in <i>Arabidopsis thaliana</i>.</b> Laura Noriega Calixto, María Eugenia Campos Torres, Delfeena Eapen, Gladys I. Cassab López. Instituto de Biotecnología, UNAM
<b>GR-78</b>	<b>HLH-30/TFEB together NAD<sup>+</sup> relieves the blocked autophagic flux due to high glucose diet.</b> Berenice Franco Juárez, Fanny Mejía Martínez, Elizabeth Moreno Arriola, Alain de Jesús Hernández Vázquez, Antonio Velázquez Arellano, Karla Carvajal, Daniel Ortega Cuellar. Instituto Nacional de Pediatría

<b>GR-79</b>	<b><i>Phaseolus vulgaris</i> calreticulin: unraveling its role in nodulation.</b> <i>Yolanda Ortega Ortega, Ricardo Omar Vazquez Consejo, Angélica Lucía Martínez Aguilar, Marco Adán Juárez Verdayes, Noreide Nava, Xóchitl Alvarado, Olivia Santana, Alfonso Leija, Carmen Quinto.</i> Instituto de Biotecnología, UNAM
<b>GR-80</b>	<b>A novel class of non-coding RNAs in <i>Entamoeba histolytica</i>.</b> <i>Lorena Palacio, Ricardo Martínez Baltazar, María Saraí Mendoza Figueroa, Jesús Valdés.</i> CINVESTAV, IPN
<b>GR-81</b>	<b>Functional Analysis of Mir-122 on Radioresistance of the Breast Cancer Cells.</b> <i>Isidro Xavier Pérez Añorve, Reynalda Roldán Pérez, Claudia Haydée González de la Rosa, Elena Aréchaga Ocampo.</i> Universidad Autónoma Metropolitana, Unidad Cuajimalpa
<b>GR-82</b>	<b>GNAO1 and ASA1 as probable biomarkers for pediatric ependymoma.</b> <i>Monserrat Pérez Ramírez, Diego Alberto Enríquez Sinta, Hernández Jiménez Alejo Justino, Del Ángel Ruiz Israel, Agustín Aguilar Fernando, Siordia Reyes Alicia Georgina, García Méndez Antonio, Chico Ponce de León Fernando, Salamanca Gómez Fabio Abdel, García Hernández Normand.</i> Centro Medico Nacional "Siglo XXI" IMSS
<b>GR-83</b>	<b>Analysis of the Genetic Diversity of <i>Ustilago maydis</i> in Mexico using Microsatellite Markers.</b> <i>Víctor Hugo Ramos García, María Fernanda Jiménez Becerril, María Myrna Solís Oba, Sanjuana Hernández Delgado, Juan Manuel González Prieto.</i> Centro de Biotecnología Genómica, IPN
<b>GR-84</b>	<b>Ribosomal profiles and rRNA synthesis in mutants (<math>\Delta</math>RPP1A, <math>\Delta</math>RPP1B, <math>\Delta</math>RPP2A and <math>\Delta</math>RPP2B) affecting ribosomes acidic proteins of <i>Saccharomyces cerevisiae</i>.</b> <i>Juan Ismael Rea Hernández, Arnulfo Bautista Santos, Samuel Zinker Ruzal.</i> Departamento de Genética y Biología Molecular, CINVESTAV, IPN
<b>GR-85</b>	<b>Role of the DisA-UvrABC interaction in protecting germinating/outgrowing <i>Bacillus subtilis</i> spores from oxidative promoted-DNA damage.</b> <i>Ana Gabriela Regalado García, Luz Idalia Valenzuela García, Mario Pedraza Reyes.</i> Universidad de Guanajuato
<b>GR-86</b>	<b><i>Candida glabrata</i> encodes a longer variant of the mating type (MAT) alpha2 gene in the mating type-like MTL3 locus.</b> <i>Karina Asyade Robledo Márquez, Gutiérrez Escobedo Guadalupe, Yañez Carrillo Patricia, Briones Martín del Campo Marcela, Orta Zavalza Emmanuel, De Las Peñas Nava Alejandro, Castaño Navarro Irene.</i> Instituto Potosino de InvestigaciónCientífica y Tecnológica A.C.
<b>GR-87</b>	<b>Mutation in TOR affect leaf margin and pod size in <i>Lotus japonicus</i> by altering PIN1, KNOTTED1, KNOX1 and PHAN expression.</b> <i>Fatima Arizbeth Plascencia, Kalpana Nanjareddy, Miguel Lara, Lourdes Blanco, Manoj Kumar Arthikala.</i> ENES. León, UNAM
<b>GR-88</b>	<b>Influence of hydrogenperoxide (<math>H_2O_2</math>) in the regulation of the Phtcluster of <i>Pseudomonas syringae</i>pv. <i>phaseolicola</i> NPS3121.</b> <i>Jennifer Alexis Rojas Morales, Alejandro Hernández Morales, Jesús Bernardino Velázquez Fernández, Verónica Alejandra Mondragón Jaimes, Jackeline Lizzeta Arvizu Gómez.</i> Universidad Autónoma de Nayarit
<b>GR-89</b>	<b>Role of Bdp1 in RNA Polymerase III transcription in <i>Leishmania major</i>.</b> <i>Fiordaliso C. Román Carraro, Luis E Florencio Martínez, Rebeca Manning Cela, Santiago Martínez Calvillo.</i> FES Iztacala, UNAM
<b>GR-90</b>	<b>Role of GRHd3 Genetic Variant in Reducing Weight in Morbidly Obesity Patients.</b> <i>Andy Michel Romero Nieves, Osvaldo D Castelán Martínez, Etual Espinosa, Martha A Sánchez Rodríguez, Claudia Ramírez Rentería, Mario Molina Ayala, Moisés Mercado.</i> FES Zaragoza, UNAM
<b>GR-91</b>	<b>Analysis of functional status of c-Met receptor and its relationship with stemness and invasive capacity of a small subpopulation derived from cell lines of gastric cancer.</b> <i>Claudia Ivette Rugerio Martínez, Leny Palma López, Damaris Romero, Alejandro García Carrancá, Luis A. Herrera Montalvo, José Efrain Garrido Guerrero, Elizabeth Ortiz Sánchez,</i> Instituto Nacional de Cancerología
<b>GR-92</b>	<b>MicroRNAs-mediated regulation of the tumor suppressor Merlin in response to inflammatory signals.</b> <i>Nilda del Carmen Sánchez Castellanos, Karla Meza Sosa, Leonor Pérez Martínez, Gustavo Pedraza Alva.</i> Instituto de Biotecnología, UNAM
<b>GR-93</b>	<b>Role of translation initiation factors eIF4E and eIFiso4E during cold stress response in <i>Arabidopsis thaliana</i>.</b> <i>Kenia Salazar Diaz,Tzvetanka D Dinkova.</i> Facultad de Química, UNAM
<b>GR-94</b>	<b>Transcriptional changes occurring in nitrogen fixation by an endosymbiotic bacteria in the basidiomycota fungus <i>Ustilago maydis</i>.</b> <i>José Alejandro Sánchez Arreguín, Claudia Geraldine León Ramírez, Miguel Ángel Hernández Oñate, José Ruiz Herrera.</i> CINVESTAV. Unidad Irapuato

<b>GR-95</b>	<b><i>Ustilago Maydis</i> gene NRG1 identification and deletion.</b> José Alejandro Sánchez Arreguín, José Ruiz Herrera, Elva Teresa Aréchiga Carvajal. Universidad Autónoma de Nuevo León
<b>GR-96</b>	<b>Deleting a gene in a hard to transform yeast. The story of <i>Debaryomyces hansenii</i>.</b> Norma Silvia Sánchez Sánchez, Martha Calahorra Fuertes, Laura Kawasaki Watanabe, Roberto Coria Ortega, Nicolas Papon, Tatiana Defosse, Antonio Peña. Instituto de Fisiología Celular, UNAM
<b>GR-97</b>	<b><i>Ustilago maydis</i> metacaspase is involved in response to stress.</b> Cinthia Valentina Soberanes Gutiérrez, Evelia Judith Figueroa Reséndiz, Edgardo Ulises Esquivel Naranjo, Fidel Landeros Jaime, José Antonio Cervantes Chávez, José Ruiz Herrera. CINVESTAV. Unidad Irapuato
<b>GR-98</b>	<b>Feronia gene has a significant role in the <i>Phaseolus vulgaris</i>- rhizobia symbiotic interaction.</b> Jorge Solís Miranda, Marco Juárez, Carmen Quinto. Instituto de Biotecnología, UNAM
<b>GR-99</b>	<b>Regulation of expression of the <i>nrdEF</i> operon encoding the class 1b ribonucleotide reductase in <i>Bacillus subtilis</i>.</b> Valeria Patricia Suárez Castro, Karla Viridiana Castro Cerritos, Mario Pedraza Reyes. Departamento de Biología, Universidad de Guanajuato
<b>GR-100</b>	<b>CRISPR/Cas9 mutagenesis of <i>Sporothrix schenckii RmID</i>.</b> Alma Karina Tamez Castrellón, Luz Adriana López Ramírez, Héctor Manuel Mora Montes. Departamento de Biología, Universidad de Guanajuato
<b>GR-101</b>	<b>Study of genetic variability in virulence factors among strains of <i>Avibacterium paragallinarum</i>.</b> Horta Valerdi Guillermo Manuel, Negrete Abascal Erasmo, Sánchez Alonso Ma. Patricia, Vázquez Cruz Candelario. Universidad Autónoma de Puebla
<b>GR-102</b>	<b>Sum1 as a virulence factor in <i>Candida glabrata</i>.</b> Norma C Vázquez Franco, Emmanuel Orta Zavalza, Irene Castaño, Alejandro De Las Peñas. Instituto Potosino de Investigación Científica y Tecnológica, A.C.
<b>GR-103</b>	<b>Construction of vectors for <i>MTL</i> gene expression in <i>Candida glabrata</i>.</b> Yamile Vidal Aguiar, Gutiérrez Escobedo Ma. Guadalupe, De Las Peñas Alejandro, Castaño Navarro Irene. Instituto Potosino de Investigación Científica y Tecnológica, A.C.
<b>GR-104</b>	<b>Role of the Oxidative Stress in the expression of the <i>Pht</i> cluster genes involved in the phaseolotoxin synthesis in <i>P. Syringae</i> pv. <i>Phaseolicola NPS3121</i>.</b> Marisol Reynoso López, Alejandro Hernández Morales, Abril Bernadette Martínez Rizo, José Navarro Partida, Jackeline Lizzeta Arvizu Gómez. Universidad Autónoma de Nayarit
<b>GR-105</b>	<b>mRNA expression of the glutathione related genes in cultured HeLa cells treated with valproic acid.</b> Benjamín González López, Reyna Elizabeth Barbosa Cabrera, Ismael Vásquez Moctezuma. ESM Instituto Politécnico Nacional

## MICROBIOLOGY AND VIRUSES

<b>MV-1</b>	<b>Effect of the E6 and E7 oncoproteins of the HPV18 in the genes expression associated whit the glycosylation.</b> Miguel Ángel Aco Tlachi, Ricardo Carreño López, Adriana Aguilar Lemarroy, Luis Felipe Jave Suárez, Gerardo Santos Lopez, Paola Maycotte González, Flores Alonso Juan Carlos, Veronica Vallejo Ruiz. Centro de Investigaciones en Ciencias Microbiológicas, Universidad Autónoma de Puebla
<b>MV-2</b>	<b>Characterization of the cellular receptors diversity for astrovirus.</b> Nayeli Aguilar Hernández, Carlos Federico Arias López, Oscar Trejo Cerro. Instituto de Biotecnología, UNAM
<b>MV-3</b>	<b>Dynamics of antagonistic interactions in an invasive network of bacteria.</b> Bernardo Aguilar Salinas, Gabriela Olmedo Álvarez. CINVESTAV Irapuato
<b>MV-4</b>	<b>The c-di-GMP protein MucR is necessary for cyst formation but not for alginate synthesis in <i>Azotobacter vinelandii</i>.</b> Iliana Chantal Martínez Ortiz, Josefina Guzmán Aparicio, Cinthia Ernestina Núñez López. Centro de Ciencias Genómicas, UNAM
<b>MV-5</b>	<b>Microbial consortia with different biochemical capabilities for hydrocarbons degradation.</b> Cesar Alvarez Mejía, Felipe Cerratos Hernández, Martha Isela Gutiérrez Amézquita, Varinia López Ramírez. Coordinación de Ingeniería Ambiental, Instituto Tecnológico Superior de Abasolo

MV-6	<b>Isolation and identification of triterpenoid acids with antitumoral effect in a submerged culture of <i>Humphreyacoffeata</i>.</b> <i>Viridiana Asprón Moncada, Monserrat García García Norma A. Valdez Cruz Mauricio A. Trujillo Roldán.</i> Instituto de Investigaciones Biomédicas, UNAM
MV-7	<b>Characterization of putative antiterminator gene e46 of bacteriophage mEp021.</b> <i>Elissa Paulina BallinasTurrén, Eva Martínez Peñafiel, Luis Kameyama.</i> Departamento de Genética y Biología molecular. CINVESTAV Zacatenco
MV-8	<b>HilD and PhoP regulate the expression of a novel gene required for <i>Salmonella entericaserovar Typhimurium</i> invasion of host cells.</b> <i>Maria Magdalena Banda Hernández, Rubiceli Manzo, Jay C. D. Hinton, José L. Puente, Fernando C. Soncini, Francisco García del Portillo, Víctor H. Bustamante.</i> Departamento de Microbiología Molecular, Instituto de Biotecnología, UNAM
MV-9	<b>Pathogenicity genes and phylogenetic group in uropathogenic <i>Escherichia coli</i> strains.</b> <i>Juan Carlos Bravata Alcántara, Juan José Méndez Velázquez, Iliana Alejandra Cortés Ortiz, Concepción Cu Quijano, Mónica Sierra Martínez.</i> Unidad de Genética y Cáncer. Laboratorio Central, Hospital Juárez de México
MV-10	<b>Microbial volatile organic compounds (mVOCs) that promote growth in <i>Arabidopsis thaliana</i>.</b> <i>David Alfonso Camarena Pozos, Mercedes Guadalupe López Pérez, José López Bucio, Juan José Peña Cabriales and Laila Pamela Partida Martínez.</i> CINVESTAV Unidad Irapuato
MV-11	<b>Isolation, identification and characterization of nitrogen-fixing bacteria from the rhizosphere of plants inhabiting the mine “El Bote” from Zacatecas, Zac. Mexico.</b> <i>Alexandro Castanon Quevedo, Juan Armando Flores de la Torre, Rosa Maria Ramirez Santoyo, Jesus Guzman Moreno, Luz Elena Vidales Rodriguez.</i> Universidad Autónoma de Zacatecas "Francisco García Salinas"
MV-12	<b>Phenolic compounds and antimicrobial activity of aqueous extracts of <i>Lippia alba</i> and <i>Lippia dulcis</i> of Cunduacán, Tabasco.</b> <i>Tania Paulina Carrasco de la Cruz, Blanca Flor Ocampo Medina, Daniel Alejandro Vázquez Cahuich, José Rodolfo Velázquez Martínez, Judith Espinoza Martínez, Dora Centurión Hidalgo.</i> Ciencias Básicas, Universidad Juárez Autónoma de Tabasco
MV-13	<b>Detection of Influenza A virus canine in the metropolitan area of Monterrey, Nuevo Leon.</b> <i>Juan Francisco Contreras Cordero, Claudia Bernardette Plata Hipólito, Sibilina Cedillo Rosales, Carlos Eduardo Hernández Luna, Cristina Rodríguez Padilla, Reyes Tamez Guerra.</i> Facultad de Ciencias Biológicas. Universidad Autónoma de Nuevo Léon
MV-14	<b>Infection with influenza A virus H1N1 (2009) of endothelial cells HMEC-1 and its effect on Protease Activated Receptors (PAR-1).</b> <i>Guillermo Cordero García, Fernando Hernández Sánchez, Pedro Vargas Leonor, Luis Ángel Pérez Moreno, José Luis Eduardo Flores Sáenz, Carlos Cabello Gutiérrez,</i> UAMI. Instituto Nacional de Enfermedades Respiratorias Ismael Cosio Villegas
MV-15	<b>Isolation of electrochemically active bacteria from a microbial fuel cell.</b> <i>Alan Jacob Cornejo Martell, María Yolanda Reyes Vidal, Francisco Javier Bácame Valenzuela, Bibiana Cercado Quezada, Julián Peña Castro.</i> Centro de Investigación y Desarrollo Tecnológico en Electroquímica SC.
MV-16	<b>Use of the MALDI-TOFMS Biotyper system for rapid identification of microbial strains isolated from pesticide-contaminated soil in Salamanca, Gto.</b> <i>Alma Rosa Corrales Escobosa, Bianey Garcia Lara, Ma. Fernanda Morales Gutierrez, Armando Alcazar Magaña Kazimierz Wrobel, Katarzyna Wrobel.</i> Departamento de Química. DCNE. Universidad de Guanajuato
MV-17	<b>Functional characterization of GrIR, a LEE-encoded negative regulator of enteropathogenic <i>Escherichia coli</i>.</b> <i>Emma Aurora Cruz Gómez, José Luis Puente.</i> Departamento de Microbiología Molecular. Instituto de Biotecnología, UNAM
MV-18	<b>Incidence of <i>Demodex folliculorum</i> infestation in students from the Universidad Juárez Autónoma de Tabasco, campus Chontalpa.</b> <i>Maria Guadalupe de los Santos López, Keren López Pérez, Olga Selene Vidal Lucas, Miguel Ángel Gómez López, Daniel Alejandro Vázquez Cahuich, Patricia Mendoza Lorenzo.</i> División Académica de Ciencias Básicas. Universidad Juárez Autónoma de Tabasco
MV-19	<b>Microbiological analysis of water intended for human consumption in the municipality of Centro Tabasco.</b> <i>Yisel Diaz Caliz, Solaina Del Lucero Jiménez López, Mayra Alondra Jiménez López, Laura Fabiola Estrada Andrade.</i> Universidad Juárez Autónoma de Tabasco

MV-20	<b>Absence of alcohol dehydrogenase (ADH1) activity in <i>Mucor circinelloides</i> increases the mouse tissue invasivity of the fungus.</b> Sharel Pamela Díaz Pérez, Marco I. Valle Maldonado, Pamela Romo Rodríguez, Adolfo López Torres, Irvin E. Jacome Galarza, Jesús Campos García, Rafael Ortíz Alvarado, J. Félix Gutiérrez Corona, Víctor Meza Carmen. Instituto de Investigaciones Químico Biológicas, Universidad Michoacana de San Nicolas de Hidalgo
MV-21	<b>Toxin genes PirA and PirB type in <i>Vibrio parahaemolyticus</i> strains isolated from shrimp.</b> Ma. de Jesús Durán Avelar, Norberto Vibanco Pérez, Ana Lourdes González Mercado, José Francisco Zambrano Zaragoza, Víctor Alfonso Sánchez Chávez, Zulia Fernandina Nieves López. Autonomous University of Nayarit. Academic Unit of Chemical Biological and Pharmaceutical Sciences
MV-22	<b>The HPV16 E6 oncoprotein variants affects the expression of cadherins in cell C33-A cells.</b> Estela Ramírez Valeria, Arcos Almazán José Mauricio, Sollano Mendieta Citlali E, Hernández Sotelo Daniel, Illades Aguiar Berenice, Del Moral Hernández Oscar. Laboratorio de Virología, Facultad de Ciencias Químico Biológicas, Universidad Autónoma de Guerrero
MV-23	<b>Dissecting microbiome functions in cacti: lessons from seed-transmitted endophytes.</b> Víctor M. Flores Núñez, Citlali Fonseca García & Laila P. Partida Martínez. CINVESTAV. Unidad Irapuato
MV-24	<b>Isolation and identification of seed-associated bacteria from Guamuchil (<i>Pithecellobium dulce</i> (Roxb) Benth.).</b> Citlalli Gallegos Bolaños, Francisco Luna Martínez, Fermín P. Pacheco Moisés, Celso Cortés Romero. CUCEI, Universidad de Guadalajara
MV-25	<b>Antibody generation against the recombinant protein Gp70 from <i>Sporothrix schenckii</i> sensus stricto and <i>Sporothrix brasiliensis</i>.</b> Laura Cristina García Carnero, José A. Martínez Álvarez, Nahum V. Hernández, Héctor M. Mora Montes. División de Ciencias Naturales y Exactas. Universidad de Guanajuato
MV-26	<b>Phenotypic diversity of <i>B. coahuilensis</i> and increase of carbon utilization in experimental evolution.</b> Zulema Gómez Lunar, Gabriela Olmedo Álvarez. Departamento de Ingeniería Genética. CINVESTAV Irapuato
MV-27	<b>Recruitment of cellular factor RTN3 in the viral replication complex on HMEC-1 cells infected with Dengue virus.</b> Luis Didier González García, Saucedo Hernández José Luis, García Cordero Julio, Cedillo Barrón Leticia, León Juárez Moises. Instituto Nacional de Perinatología Isidro Espinosa de los Reyes
MV-28	<b>Identification of <i>Rhizobium tropici</i> CIAT899 genes involved in Benzo[a]pyrene resistance or degradation.</b> Yessica González Paredes, Blanca Jazmín Reyes Hernandez, Ernesto Ormeño Orrillo, Esperanza Martínez Romero. Centro de Ciencias Genómicas, UNAM
MV-29	<b>Effect of psidium guajava on periodontopathogenic bacteria.</b> Alexandra González Ulloa, Rubén Octavio Méndez Márquez, Blanca Patricia Lazalde Ramos. Unidad Académica de Ciencias Químicas. Universidad Autónoma de Zacatecas "Francisco García Salinas"
MV-30	<b>Expression of IRE1α as a prognostic marker of cervical cancer: an immunohistochemical analysis.</b> Rusland Enrique Torres Orozco, Rafael Gutiérrez Campos. Laboratory of Virology and Genetic Engineering. Autonomous University of Aguascalientes
MV-31	<b>Isolation and analysis of membrane microdomains in <i>Escherichia coli</i>.</b> José Enrique Guzmán Flores, Adrián Fernando Alvarez, Marina Gavilanes Ruiz, Sebastian Poggio Ghilarducci, Dimitris Georgellis. Instituto de Fisiología Celular, UNAM
MV-32	<b>Production and partial characterization of bacteriocin-like substances from different strains of the <i>Streptomyces</i> genus.</b> Oscar Felipe Hernández Saldaña, José Eleazar Barboza Corona, Luz Edith Casados Vázquez. Campus Irapuato Salamanca. Universidad de Guanajuato
MV-33	<b>Identification and Molecular Detection of <i>Staphylococcus</i> spp., from Uterine Cervix Scraps.</b> Reynaldo Hernández Santiago, Keiko Taniguchi Ponciano, Daniel Marrero Rodríguez, Pablo Romero Morelos, Mariana Valdespino Zavala, Alejandra Rodríguez Castellanos, Ismael Rodríguez Idelfonso, Berenice Mulato Briones, Rosa M Ribas Aparicio, Patricia Cauich Sánchez, Juan López Esparza, María del Socorro Méndez Tovar, Annabelle Cerón Nava, Norma E Herrera González, Ricardo López Romero, Mauricio Salcedo Vargas. UMAE Hospital de Oncología CMN SXXI-IMSS. IPN.

MV-34	<b>Phenotypic plasticity of <i>Bacillus</i> isolates from Coahuila, Mexico.</b> Enrique Hurtado Bautista, Diana Fabiola Díaz Jiménez, Diana Guadalupe Tapia García, Gabriela Olmedo Álvarez. CINVESTAV Unidad Irapuato
MV-35	<b>Regulatory mechanisms controlling the expression of the <i>ecp</i> fimbrial operon in <i>Citrobacter rodentium</i>.</b> María Inés Isidro Coxca, Verónica I. Martínez Santos, Andrés Escalera, Abraham Medrano, Gustavo Caballero, Alejandra Vázquez, José Luis Puente. Instituto de Biotecnología, UNAM
MV-36	<b>Phenotypic differentiation of aquatic <i>Bacillus</i> species.</b> Africa Islas Robles, Zulema Gómez Lunar, María Dolores Rodríguez Torres, Vianney Rodríguez Razo, Diana Guadalupe Tapia García and Gabriela Olmedo Álvarez. CINVESTAV Irapuato
MV-37	<b>Antiviral and immunomodulatory effect of six polyphenolic compounds in cells infected with dengue virus serotype 2.</b> María Carolina Jasso Miranda, Irma Herrera Camacho, Lilian Karem Flores Mendoza, Irma Fabiola Domínguez Avilés, Nora Hilda Rosas Murrieta, Dino Gnecco Medina, Gerardo Santos López, Julio Roberto Reyes Leyva. Virology laboratory, CIBIOR-IMSS. Benemérita Universidad Autónoma de Puebla
MV-38	<b>Detection of <i>Pseudomonas aeruginosa</i> in spinal liquid fo rLoop-mediated Isothermal Amplification (LAMP).</b> María del Sol Jiménez López, Daniel Alejandro Morales Vázquez, Ana Gabriel Estrada Martínez, Juan Joel Mosqueda Gualito, Bertha Carvajal Gamez. Faculty of Natural Sciences, Autonomous University of Queretaro
MV-39	<b>Expression of the serine protease MarP from <i>Mycobacterium tuberculosis</i> in the periplasm of <i>Escherichia coli</i>.</b> Jorge Luis Jiménez Niebla, Alexis Zarahy Minchaca Acosta, Patricia Lilián Alejandra Muñoz Muñoz, Rosa Elena Mares Alejandre, Samuel Guillermo Meléndez López, Marco Antonio Ramos Ibarra. Facultad de Ciencias Químicas e Ingeniería, Universidad Autónoma de Baja California
MV-40	<b>The impact of adenoviral protein E1B-55 kDa phosphorylation on the DNA Viral replication.</b> Raúl Eduardo López Antonio, Ramón A. González García Conde. Instituto de Biotecnología. Centro de Investigación en Dinámica Celular, UAEM
MV-41	<b>Study on the Antifungal Activity of Silver Nanoparticles.</b> Jessica López Hernández, Ana Gabriela Estrada Almeida, Patricia Mendoza Lorenzo, Pascual Pedraza Montero, Juan Carlos Arévalo Pérez, Irma Sánchez Lombardo. Univerisidad Juárez Autónoma de Tabasco
MV-42	<b>Molecular characterization of <i>Gallibacterium anatis</i> -like strains harbored in hens.</b> Ana Jacqueline López Ochoa, Anallely Cervantes Mendoza, Erasmo Negrete Abascal, Sergio Vaca Pacheco, Víctor Pérez Márquez, Armando Tapia Hernández, Teresita Jiménez Salgado, María Patricia Georgina Sánchez Alonso & Candelario Vázquez Cruz. Universidad Autónoma de Puebla
MV-43	<b>Photobionts diversity is related with lichens ecological distribution in Guanajuato.</b> Varinia López Ramírez, Clementina Franco Palatto, César Álvarez Mejía. Coordinación de Ingeniería Bioquímica, Instituto Tecnológico Superior de Irapuato
MV-44	<b>Novel fusion proteins generated with fimbrial adhesins of uropathogenic <i>Escherichia coli</i>.</b> Victor Manuel Luna Pineda, Juan Pablo Reyes Grajeda, Ariadnna Cruz Córdova, Zeus Saldaña Ahuactzi, Vicenta Cázares Domínguez y Juan Xicotencat Cortes. Laboratorio de Investigación en Bacteriología Intestinal, Hospital Infantil de México Federico Gómez
MV-45	<b>Function analysis of RSP_1318 a component of the Fla2 flagella of <i>Rhodobacter sphaeroides</i>.</b> Arely Ivonne Marcos Vilchis, Teresa Ballado, Javier de la Mora, Laura Camarena, Georges Dreyfus. Instituto de Fisiología Celular, UNAM
MV-46	<b>Study of essential genes in <i>Escherichia coli</i>.</b> Enrique Martínez Carranza, Hugo Rafael Barajas de la Torre, Luis David Alcaraz Peraza, Luis Servín González, Gloria Soberón Chávez. Departamento de Biología Molecular y Biotecnología, Instituto de Investigaciones Biomédicas, UNAM
MV-47	<b>Involvement of cyclodipeptides in the bacterial population control of the Churince system of Cuatro Ciénegas basin.</b> Enrique Martínez Carranza, Gabriel Y. Ponce Soto, Valeria Souza Saldívar, Alma Laura Díaz Pérez and Jesús Campos García. Universidad Michoacana de San Nicolas de Hidalgo
MV-48	<b>Role of the nucleoid-associated proteins H-NS and StpA in the regulation of <i>Citrobacter rodentium</i> virulence.</b> Haydee Martínez Plascencia, Gustavo G. Caballero Flores, José Luis Puente. Instituto de Biotecnología, UNAM

MV-49	<b>Expression of the sRNA's CrcZ and CrcY in Different Carbon Catabolic Repression Conditions in <i>Azotobacter vinelandii</i>.</b> Marcela Martínez Valenzuela, Josefina Guzmán Aparicio, Cinthia Ernestina Núñez López. Instituto de Investigación en Ciencias Básicas y Aplicadas, Universidad Autónoma del Estado de Morelos
MV-50	<b>Study and identification of cold adaptation proteins in the Antarctic yeast <i>Rhodotorula mucilaginosa</i>.</b> Ana Paulina Mendoza Von der Borch, Jorge Brito Sánchez, Claudia Segal Kischinevzky, Víctor Valdés López, Viviana Escobar Sánchez, Alfonso Vilchis Peluyera, Marcelo Baeza, Luisa Alba Lois. Facultad de Ciencias, UNAM
MV-51	<b>Clonning and expression of Dengue virus protein NS4A.</b> Daniel Montes Herrera, Saucedo Hernández José Luis, Ramos Rojo Raymundo, Helguera Repetto Cecilia, Garcia Cordero Julio, Cedillo Barrón Leticia, León Juárez Moises. Laboratorio de Inmunobioquímica, Instituto Nacional de Perinatología Isidro Espinosa de los Reyes
MV-52	<b>Characterization of the quorum-sensing system RhIR/RhlI of a <i>Pseudomonas aeruginosa</i> dolphin isolate.</b> Estefanía Morales Ruiz, Luis Servín González, Gloria Soberón Chávez. Instituto de Investigaciones Biomédicas, UNAM
MV-53	<b>Fungal endophytes diversity associated to <i>Pytogramma sp.</i>, thermotolerant fern from "Los Azufres", Michoacán.</b> Adán Topiltzin Morales Vargas, Cesar Álvarez Mejía, Segoviano Santoyo Fátima Guadalupe, Varinia López Ramírez. Ingeniería Agroindustrial, División de Ciencias de la Salud e Ingenierías, Universidad de Guanajuato
MV-54	<b>Association between <i>Helicobacter pylori</i> infection and periodontitis.</b> Luis Enrique Ordoñez Mejía, María Olivia Medel Flores, María del Consuelo Gómez García, David Guillermo Pérez Ishiara, Nury Pérez Hernández, Virginia Sánchez Monroy. Escuela Nacional de Medicina y Homeopatía, Instituto Politécnico Nacional
MV-55	<b>Endophytic fungus with antibiotic activity against fungal plant-pathogens.</b> Claudia Ordóñez Valencia, Rufina Hernández Martínez. CICESE
MV-56	<b>Analysis of the effect of nucleolin and CTCF in adenovirus 5 replication.</b> Yoatzin Peñaflor Téllez, Ramón A. Gonzalez. Instituto de Investigación en Ciencias Básicas y Aplicadas, UAEM
MV-57	<b>Isolation and characterization of microorganism with agronomic importance from the rhizosphere of "maguey pulquero" (<i>Agave salmiana</i>).</b> María del Pilar Osorno Suárez, Teresa Romero Cortes, Martín Peralta Gil, Raúl Noguez Moreno, Gustavo Hernández Guzmán, Julio Vega Arreguín, Noé Duran Figueroa, Jaime Bravo Ramírez, Victor Hugo Pérez España. Escuela Superior de Apan, Universidad Autónoma del Estado de Hidalgo
MV-58	<b>Novel methodology to fractionate cell proteins for two-dimensional gel electrophoresis.</b> Luis Angel Pérez Moreno, Fernando Hernández Sánchez, Héctor Guillermo Cordero García, Pedro Vargas Leonor, Carlos Cabello Gutiérrez. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas
MV-59	<b>Neutralizing activity of anti-M1 antibodies against equine influenza virus.</b> Claudia Bernardette Plata Hipólito, Sibilina Cedillo Rosales, Licet Villarreal Treviño. Cristina Rodríguez Padilla, Reyes Tamez Guerra, Juan Francisco Contreras Cordero. Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León
MV-60	<b>Searching for the function of an early protein from bacteriophage PaMX41 infecting <i>Pseudomonas aeruginosa</i>.</b> Irais Ramírez Sánchez, Indira Cruz Plancarte, Gabriel Guarneros. CINVESTAV Zacatenco
MV-61	<b>The use Killer's toxin from yeast <i>S. cerevisiae</i> as an inductor of cellular death in microorganisms with biomedical importance.</b> Jimena Ramírez Villarreal, Juan Campos Guillen, Verónica Morales Tlalpan, Jorge Chávez Servín, Roberto Ferriz Martínez & Carlos Saldaña. Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro
MV-62	<b>Analysis of the disulfide oxidoreductase activities of a DsbA-like protein from <i>Mycobacterium tuberculosis</i>.</b> Marco Antonio Ramos Ibarra, Alexis Zarahy Minchaca Acosta, Pablo Alfonso Madero Ayala, Patricia Lilián Alejandra Muñoz Muñoz, Samuel Guillermo Meléndez López, Rosa Elena Mares Alejandre. Universidad Autónoma de Baja California

MV-63	<b>Types of melanin produced in the grapevine phytopathogenic fungus <i>Lasiodiplodia theobromae</i>. Edelweiss</b> <i>Airam Rangel Montoya, Marcos Paolinelli Alfonso, Rufina Hernández Martínez.</i> Centro de Investigación Científica y de Educación Superior de Ensenada
MV-64	<b>Genetic and Antigenic relation of VP8* and VP5* subunits of VP4 protein of Rotavirus on Northern Mexico.</b> <i>César Iván Romo Sáenz, Griselda Edith Menchaca Rodríguez, Rocío Infante Ramírez, Licet Villarreal Treviño, Carlos Eduardo Hernández Luna, Cristina Rodríguez Padilla, Reyes Tamez Guerra, Juan Francisco Contreras Cordero.</i> Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León
MV-65	<b>Expression of HBD-2 in patients with viral infections and asthmatic crisis.</b> <i>Dora Patricia Rosete Olvera, Carlos Cabello Gutiérrez, Ignacio Paramo Ramírez, Rocío Chapela Mendoza, José Luis Sandoval Gutiérrez, Christian Trejo Jasso.</i> Instituto Nacional de Enfermedades Respiratorias Ismael Cosio Villegas
MV-66	<b>In Vitro Evaluation of Antibacterial Activity of the Strain <i>Lactobacillus paracasei</i> KSI.</b> <i>Azarel Ruiz Román, Laura Martínez Pérez, Ricardo Carrasco Torres, Patricia Aguilar Alonso, Gloria León Tello, Juan Carlos Benítez Serrano.</i> Facultad de Cs. Químicas, BUAP
MV-67	<b>Analysis of transcriptional expression of f17 fimbriae and of the build of biofilm in <i>Gallibacterium anatis</i>.</b> <i>Ma. Patricia Sánchez Alonso, Miguel Ávalos Rangel, Estela Anastacio Marcelino, Candelario Vázquez Cruz, Erasmo Negrete Abascal.</i> Instituto de Ciencias. BUAP
MV-68	<b>Phenotypic analysis of <i>cdgC:GusA-Sp<sup>R</sup></i> mutant of a diguanylate cyclase from <i>Azospirillum brasilense</i> sp 245.</b> <i>Daniel Sierra Cacho, Alberto Ramírez Mata, María Luisa Xiqui Vázquez, Beatriz E. Baca.</i> Instituto de Ciencias. BUAP
MV-69	<b>Microbial diversity in the intestinal tract of the Pacific reproductive geoduck clam <i>Panopeaglobosa</i> (Dall 1898).</b> <i>Hortencia Silva Jiménez, Cynthia L. Araujo Palomares, Zaúl García Esquivel, Alma R. Corrales Escobosa, Katarzyna Wröbel, Tatiana N. Olivares Bañuelos.</i> División de Biología Molecular, Universidad Autónoma de Baja California
MV-70	<b>Isolation and characterization of influenza A virus strains in Mexican patients.</b> <i>William Toledo Rueda, Luis Márquez Domínguez, César González Bonilla, Esteban Muñoz Medina, Julio Reyes Leyva, Verónica Vallejo Ruiz, Nora Rosas Murrieta, Gerardo Santos López.</i> Centro de Investigación Biomédica de Oriente. IMSS
MV-71	<b>Physiological characterization of conidia of <i>Sclerotium cepivorum</i> Berk: causal agent of garlic white rot disease.</b> <i>Jessica Edith Torres Granados, Christian Lona Arrona, Ma. de Lourdes Palma Tirado, Alberto Flores Martínez, Patricia Ponce Noyola.</i> Departamento de Biología, Universidad de Guanajuato
MV-72	<b>Multiple serum proteins as opsonins of <i>Sporothrix schenckii</i> conidia.</b> <i>Jazmín Sánchez Morales, Augusto González Canto, Alma Escalona Montaño, Haydee Torres Guerrero.</i> Facultad de Medicina, UNAM
MV-73	<b>Metabolomic study of <i>Lasiodiplodia theobromae</i>.</b> <i>Carla Uranga Solís, Joris Beld, Anthony Mrse, Ivan Córdova Guerrero, Michael Burkart, Rufina Hernández Martínez.</i> Centro de Investigación Científica y de Educación Superior de Ensenada
MV-74	<b>Cloning and expression of the ORFan g26 from coliphage mEp021.</b> <i>Guadalupe Valencia Toxqui, Eva Martínez Peñafiel, Luis Kameyama.</i> Departamento de Genética y Biología Molecular, CINVESTAV Zácatenco
MV-75	<b>Association of Human Papilloma Virus with prostate cancer in Mexican Men.</b> <i>Vania Alejandra Valenzuela Rodríguez, María Olivia Medel Flores, María del Consuelo Gómez García, David Guillermo Pérez Ishiwara, Virginia Sánchez Monroy.</i> ENMyH. Instituto Politécnico Nacional
MV-76	<b>Searching for cell envelope components involved in the coliphage mEp021 infection.</b> <i>Roxana Yessika Vargas Jerónimo, Eva Martinez Peñafiel, Luis Yoshio Kameyame Kawabe.</i> Department of Genetics and Molecular Biology, CINVESTAV Zácatenco
MV-77	<b>Influenza A virus down regulates the expression of thrombo modulin in endothelial cells.</b> <i>Pedro Vargas Leonor, Fernando Hernández Sánchez, Guillermo Cordero García, Luis Ángel Pérez Moreno, Carlos Cabello Gutierrez.</i> Instituto Nacional de Enfermedades Respiratorias Ismael Cosio Villegas

MV-78	<b>Cloning and expression of genes encoding fimbrial proteins F17 of Flf3 operon from <i>Gallibacterium anatis</i>.</b> José Pablo Velázquez Valtierra, María Elena Cobos Justo, Erasmo Negrete Abascal, Candelario Vázquez Cruz, Ma. Patricia Georgina Sánchez Alonso, Norma Elena Rojas Ruiz. Instituto de Ciencias, Universidad Autónoma de Puebla
MV-79	<b>Conservation of cell polarity markers in the Kingdom Fungi.</b> Jorge Verdín, Robert W Roberson Meritxell Riquelme. Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, AC.
MV-80	<b>IL28B gene polymorphisms rs8099917 and rs12979860 with response to treatment with Pegylated Interferon and Ribavirin in patient swith Hepatitis C.</b> Norberto Vibanco Pérez, Ma. de Jesús Durán Avelar, Miriam G. Vázquez Herrera, Pedro Castro Melchor, J. Francisco Zambrano Zaragoza, Jaime Sánchez Meza, Zulia F. Nieves López, Victor A. Sánchez Chávez. Unidad Académicas de Ciencias Químicas, Universidad Autónoma de Nayarit
MV-81	<b>Disruption of anion exchanger 1 (band-3) by plasmid-encoded toxin a serine protease from entero aggregative <i>Escherichia coli</i>.</b> Jorge Mateo Villaseca Flores, Patricia Villaseca Torres, David González Salado, Patricia Moreno Durán. Departamento de Microbiología y Parasitología. Facultad de Medicina. UNAM
MV-82	<b>TEA proteins in apical organization in <i>Neurospora crassa</i>.</b> Fausto M. Villavicencio Aguilar, Rosa R. Mouríño Pérez. CICESE

*Friday*

Friday November 11, 2016

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8:30 – 10:30 **Plenary Session 10**

San Marcos Room I

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### **Epigenetics**

Chair: *Mario Zurita*

Instituto de Biotecnología, UNAM

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8:30 – 9:00 Mitotic bookmarking by TFIIH during zygotic genome activation in *Drosophila* suggests the existence of a short-term transcriptional memory mechanism  
**Mario Zurita**, Mandy Juárez, Sarai ValerioCabrera and Grisel CruzBecerra  
Departamento de Genética del Desarrollo y Fisiología Molecular, Instituto de Biotecnología, UNAM

9:00 – 9:30 Genome-wide mapping of tissue-specific enhancers during Drosophila development  
**Kasia Oktaba**  
University of California at Berkeley. USA

9:30 – 10:00 The long-range promoter interactions landscape of pluripotent cells  
**Mayra Furlan Magaril**  
Instituto de Fisiología Celular, UNAM

10:00 – 10:30 The circadian clock: a biological system at the crossroad of metabolism and epigenetics  
**Lorena Aguilar Arnal**, Paolo Sassone Corsi.  
Instituto de Investigaciones Biomedicas, UNAM

### **Computational Biology**

Chair: *Cei Abreu Goodger*  
LANGEBIO CINVESTAV Irapuato

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- 8:30 – 9:00     Extracellular small RNAs during parasite-host communication  
**Cei Abreu Goodger**, Cesaré Ovando Vazquez, Franklin Chow, Georgios Koutsovoulos, Tuhin Maity, Mark Blaxter, Julie Claycomb, Amy Buck  
LANGEBIO CINVESTAV Irapuato
- 9:00 – 9:30     A network approach to pharmaceutical resistance in breast cancer  
**Enrique Hernández Lemus**, Guillermo de Anda Jáuregui, Jesús Espinal Enríquez Raúl A. MejíaPedroza  
Computational Genomics Division. National Institute of Genomic Medicine
- 9:30 – 10:00     Inter-species comparison of endothelial cell gene regulation reveals the conserved control of vascular disease genes  
**Alejandra Medina Rivera**, Lina Antounians, Azad Alizada, Michael Liang, Lan Dang, France Gagn  
Genetics and Genome Biology, SickKids Research Institute. Laboratorio Internacional de Investigación sobre el Genoma Humano. UNAM
- 10:00 – 10:30     Microbial Motility and Random Walkers  
**Moisés Santillán**  
CINVESTAV IPN Unidad Monterrey
- 10:30 – 11:00     Coffee break  
Foyer San Marcos Room

## Concurrent Sessions

Friday November 11, 2016

11:00 – 13:30	13 Systems Biology & Bioinformatic San Marcos One Room	14 Basic Biochemistry San Marcos Two Room	15 Immunology & Parasitology San Marcos Three Room
	Chair: Alexander De Luna LANGEBIO CINVESTAV	Chair: Alejandro Sosa Facultad de Medicina. UNAM	Chair: Erik Sierra Univ. Juárez Edo. Durango
11:00-11:20	<b>Role of miRNAs in breast cancer regulatory networks.</b> <i>Diana Drago García, Jesús Espinal Enríquez, Enrique Hernández Lemus.</i> National Institute of Genomic Medicine	<b>Phylogenetic profile, sequence conservation and genetic complementation assays of the protein family EFL1.</b> <i>Alfonso Méndez Godoy, Magali Honey Escandón, Nuria Sánchez Puig. Instituto de Química, UNAM</i>	<b>Employing cactophilic Drosophila species to study metabolic diseases</b> <i>Daniel Cázares García, Mariana Ramírez Loustalot Laclette, Therese Ann Markow, Robert Winkler. CINVESTAV Irapuato</i>
11:20-11:40	<b>MiRNOME Landscape Analysis Reveals a 30 miRNA Core in Retinoblastoma</b> <i>M. Verónica Ponce Castañeda, Blanca Elena Castro Magdonel, Manuela Orjuela, Adda Jeanette García Chéquer, Ma. De Lourdes Cabrera Muñoz, Noé Durán Figueroa. IMSS</i>	<b>Matrix metalloproteinase 13 (MMP13 or collagenase 3) play a key role during resolution of lung fibrosis.</b> <i>Sandra Cabrera Benítez, Mariana Maciel Herrerías, Daniel Hernández Barrientos, Annie Pardo Cemo, Moisés Selman Lama. Facultad de Ciencias, UNAM</i>	<b>Trypanosoma cruzi: Antigens identification of Mexican isolates.</b> <i>Teresa Itandehui Martínez Cuevas, Alejandra Patricia Barranco Sosa, Luis Alberto Hernández Osorio, María del Carmen Guzmán Bracho and Rebeca Georgina Manning Cela. CINVESTAV Zacatenco</i>
11:40-12:00	<b>Genomic reconstruction of the evolutionary history of Phaseolus vulgaris: from early speciation to recent domestication in America.</b> <i>Martha Rendón Anaya, Josaphat M. Montero Vargas, Soledad Saburido Álvarez, Anna Vlasova, Salvador Capella Gutiérrez, José Juan Ordaz, Toni Gabaldón, Luis Delaye Arredondo, Paul Gepts, Robert Winkler, Roderic Guigó, Alfonso Delgado Salinas, Alfredo Herrera Estrella. LANGEBIO CINVESTAV Irapuato</i>	<b>Identification of membrane proteins of Helicobacter pylori, which bind human haemoglobin.</b> <i>José de Jesús Olivares Trejo, Cristhian Sánchez Cruz, Marco Antonio González López, Norma Velázquez Guadarrama. CONACYT Universidad Autónoma Metropolitana</i>	<b>Erythrocyte Sialoglycoproteins Bind Siglec-9 to Maintain Neutrophil Quiescence in the Bloodstream</b> <i>Ismael Secundino, Anel Lizcano Simón Döhrmann, Ross Corriden, Sandra Díaz, Lingquan Deng, Víctor Nizet, Ajit Varki. Instituto de Biotecnología, UNAM</i>
12:00-12:20	<b>Computational modeling of TLR5 and TCR cooperation for adult and neonatal CD4 T cell activation.</b> <i>Otoniel Rodriguez Jorge, Linda Aimara Kempis Calanis, Darely Yarazeth Gutiérrez Reyna, Oscar Ramirez Pliego, Wassim Abou Jaudé, Morgane Thomas Chollier, Salvatore Spicuglia, Maria Angélica Santana Calderón, Denis Thieffry. UAEM</i>	<b>SMc03960 is a thioesterase from Sinorhizobium meliloti with broad substrate specificity capable of producing 2-tridecanone</b> <i>Geovanny Rivera Hernández, Lydia M. Bernabéu Roda, Christian Sohlenkamp, Otto Geiger, María José Soto, Isabel M. López Lara. CCG UNAM</i>	<b>The zinc-mediated 50 kDa-metalloproteinase, tvMP50 of Trichomonas vaginalis is involved in cytotoxic prostatic cells.</b> <i>Jonathan Puente Rivera, José Luis Villalpando Aguilar, Alma Villalobos Osnaya, Laura Isabel Vázquez Carrillo, María Elizabeth Álvarez Sánchez. UACM</i>

	<b>13 Systems Biology &amp; Bioinformatic</b>  <b>San Marcos One Room</b>	<b>14 Basic Biochemistry</b>  <b>San Marcos Two Room</b>	<b>15 Immunology &amp; Parasitology</b>  <b>San Marcos Three Room</b>
	Chair: Alexander De Luna LANGEBIO CINVESTAV	Chair: Alejandro Sosa. Facultad de Medicina. UNAM	Chair: Erik Sierra. Univ. Juárez Edo. Durango
12:20-12:40	<b>Early evolution of gene regulatory elements in the animal kingdom.</b> <i>Selene L. Fernández Valverde, Bernard M. Degnan.</i> LANGEBIO. CINVESTAV. Irapuato	<b>Expression profile of Hsp90 alpha and Hsp90 beta identifies a patients subgroup with renal cell carcinoma with lower survival.</b> <i>Romero Mandujano Aline Kay, Nadia Rangel Gauna, Miguel Jiménez Ríos, Delia Pérez Montiel Gómez, David Cantú de León, José Díaz Chávez, Norma Bobadilla Sandoval, Luis Alonso Herrera Montalvo, Carlo César Cortés González.</i> Instituto Nacional de Cancerología	<b>Effect of cola consumption on growth and insulin resistance in rats with nutritional imbalance.</b> <i>José Hugo Zavala Sánchez, Héctor Urquiza Marín, Madeline Hernández Rebollar, Francisco Bolaños Jiménez.</i> Instituto de Investigaciones Químico Biológicas, Morelia Michoacán.
12:40-13:00	<b>Microrna-204 impairs angiogenesis by targeting pro-angiogenic ANGPTL2 and CREB5 transcription factor in breast cancer.</b> <i>Carlos Palma Flores, Ali FloresPérez, Laurence A. Marchat, Sergio Rodríguez Cuevas, Jesús Chimal Monroy, César López Camarillo.</i> Posgrado en Ciencias Genómicas, UACM	<b>Identification of druggable binding pockets in the molecular surface of the TATA binding protein from eukaryotic parasites.</b> <i>José Ángel Santiago Terrones, Carmen Nina Pastor Colón.</i> Centro de Investigación en Dinámica Celular, Universidad Autónoma del Estado de Morelos	<b>Angiogenesis is controlled by miR-204 through dual targeting of pro-angiogenic ANGPT1 and TGFRB2 genes in breast cancer.</b> <i>José Ali Flores Pérez, Laurence a. Marchat, Sergio Rodríguez Cuevas, Alfredo Hidalgo Miranda, Elena Arechaga, Mónica Sierra Martínez, María I. Streber, Carlos PalmaFlores, Miguel Fonseca Sánchez, Juan Antonio González, César López Camarillo.</i> UACM
13:00-13:20	<b>Structure of the bacterial ATP synthase</b> <i>Edgar Morales-Ríos, Martin G. Montgomery, Andrew G. W. Leslie and John E. Walker</i> Mitochondrial Biology Unit. Medical Research Council. Cambridge, UK. and CINVESTAV Zacatenco	<b>Impact of presumed CD49f antagonist in the stemness of breast cancer cells.</b> <i>Marco Velasco Velázquez, Inés Velázquez Quesada, Andrea Rodríguez Moreno, Sandra Guerrero Rodríguez, Charmina Aguirre Alvarado, Ángel RuizMoreno, Aldo Segura Cabrera.</i> Facultad de Medicina, UNAM	<b>Apoptosis-like mitochondrial membrane permeabilization in <i>Trypanosoma brucei</i>.</b> <i>David Pérez Morga, Gilles Vanwalleghem, Frédéric Fontaine, Laurence Lecordier, Patricia Tebabi, Anneke Kremer, Gabriela Schumann Burkard, Joachim Rassow, Isabel Roditi &amp; Etienne Pays.</i> Laboratoire de Parasitologie Moléculaire, Université Libre de Bruxelles, Belgium

13:30 – 15:30 Lunch

15:30 – 17:30 Poster Session 4

IP      IMMUNOLOGY AND PARASITOLOGY  
NN      NEUROSCIENCES AND NEUROLOGY  
TP      TOXICOLOGY AND PHARMACOLOGY  
ST      SIGNAL TRANSDUCTION

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17:30 – 18:30 **Closing Lecture**

Epigenetics and Onco-metabolites

**Jasper Rine**

California Institute of Quantitative Biosciences

Department of Molecular and Cellular Biology. U.C. Berkeley

Chair: *Irene Castaño*  
IPICYT

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18:30 – 19:00 Final announcements and Closing Ceremony

21:00            Closing Dinner

## IMMUNOLOGY AND PARASITOLOGY

IP-1	<b>Zip14 role in regulating the redistribution of plasma zinc into liver during inflammation and their induction by signaling pathway Jak-Stat.</b> <i>Violeta Aburto Luna, Samuel Treviño Mora, Diana Moroni González, Patricia Aguilar Alonso, Bertha Alicia León Chávez, Eduardo Miguel Brambila Colombres.</i> Facultad de Ciencias Químicas, Benemérita Universidad Autónoma de Puebla
IP-2	<b>Effect of testosterone on oxidative stress in blood and spleen of CBA/Ca mice infected with <i>P. berghei</i> ANKA.</b> <i>Jesús Aguilar Castro, Martha Legorreta Herrera.</i> FES Zaragoza, UNAM
IP-3	<b>Purification of IgG<sub>1</sub> and IgG<sub>2</sub> from hyperimmunized bovine against <i>Anaplasma marginale</i>.</b> <i>Itzel Amaro Estrada, Eduardo Vergara Rivera, Jesús Francisco Preciado de la Torre, Rosa Estela Quiroz Castañeda, Mayra Elizeth Cobaxin Cárdenas, Sergio Darío Rodríguez Camarillo.</i> Centro Nacional de Investigación Disciplinaria en Parasitología Veterinaria del Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias
IP-4	<b>Analysis of differential expression between strains of <i>Trypanosoma cruzi</i>, with high or low infectivity.</b> <i>Antonio Campos Alberto, Martínez Cuevas Teresa Itandehui, Guzmán Bracho María del Carmen, Martínez Calvillo Santiago, Alejandro Aguilar Ricardo, Manning Cela Rebeca.</i> ENCB-IPN
IP-5	<b>Clustering of Ig-like domains during CRTAM-NECL2 Interaction.</b> <i>Juan Carlos Barragán Gálvez, Vianney Ortiz Navarrete.</i> CINVESTAV Zácatenco
IP-6	<b>Effect of oestradiol on the mRNA expression of IFN-γ and TNF-α in CBA/Ca mice infected with <i>P. berghei</i> ANKA.</b> <i>Fidel Orlando Buendía González, Martha Legorreta Herrera.</i> Facultad de Estudios Superiores Zaragoza, UNAM
IP-7	<b><i>Trypanosoma cruzi</i> RNA polymerase I: Characterization of the nuclear localization signal of subunit RPA31.</b> <i>Israel Felipe Canela Pérez, Cevallos A. María, López Villaseñor Imelda, Hernández Roberto.</i> Instituto de Investigaciones Biomédicas, UNAM
IP-8	<b>Characterization of the cyst formation <i>in vitro</i> of <i>Toxoplasma gondii</i> and study of the role of the cytoskeleton of the host cell.</b> <i>Kitzia Nohemí Castro Elizalde, Pedro Hernández Contreras, Mónica Mondragón Castelán, Sirenia González Pozos, Ricardo Mondragón Flores.</i> CINVESTAV Zácatenco
IP-9	<b>ERM proteins of mosquito <i>Aedes</i> sp., important vector of human disease.</b> <i>Febe E. Cázares Raga, Irving U. Martínez Vargas, David Mayorga Calleja, Abel Trujillo Ocampo, Rosa M. del Angel, Fidel de la C. Hernández Hernández.</i> CINVESTAV. Zácatenco
IP-10	<b>Effect of tamoxifen on the oxidative stress in CBA/Ca mice infected with <i>Plasmodium berghei</i> ANKA.</b> <i>Luis Antonio Cervantes Candelas, Martha Legorreta Herrera.</i> Facultad de Estudios Superiores Zaragoza, UNAM
IP-11	<b>Parasitological study of streams and channels of the Ranchería La Cruz de Olcuatitán Nacajuca, Tabasco.</b> <i>Blanca Estela Contreras Pérez, Lorena I. Acosta Pérez, Ma. Antonia Luna Gómez, Iris Ricardez Córdova.</i> Universidad Juárez Autónoma de Tabasco
IP-12	<b>Identification and characterization of a phosphatase 2C of <i>Toxoplasma gondii</i> and its possible role in regulation of conoid extrusion.</b> <i>Rosalba Cruz Mirón, Mondragón Castelán Mónica, Castro Elizalde Kitzia, Emmanuel Ríos, Mondragón Flores Ricardo.</i> CINVESTAVIPN. Zácatenco
IP-13	<b>Effectiveness of both plants: <i>Cymbopogon citratus</i> and <i>Curcuma longa</i> as prophylactic antimalarial treatments in <i>Plasmodium berghei</i> ANKA infected CBA/Ca mice.</b> <i>Omar Fernández Rivera, Martha Legorreta Herrera.</i> Facultad de Estudios Superiores Zaragoza, UNAM
IP-14	<b>Development of a detection method of <i>Acanthamoeba castellanii</i> with gold nanoparticles.</b> <i>María de la Luz García Jaime, Lérida Liss Flores Villavicencio, Gloria Barbosa, Juan Luis Pichardo Molina, Pablo Eduardo Cardoso Ávila, Julio César Villagómez Castro, Mineko Shibayama, Myrna Sabanero.</i> Departamento de Biología, DCNE, Universidad de Guanajuato
IP-15	<b>Activity of podophyllotoxin type lignans from <i>Bursera fagaroides</i> var. <i>fagaroides</i> against <i>Giardia lamblia</i> trophozoites.</b> <i>Filiberto Gutiérrez Gutiérrez, Ana María Puebla Pérez, Sirenia González Pozos, José Manuel Hernández Hernández, Laura Patricia Álvarez Berber, Araceli Castillo Romero.</i> Departamento de Química, Universidad de Guadalajara

IP-16	<b>Effect of adipokinetic hormones on the regulation of antimicrobial peptides in <i>Anopheles albimanus</i> Mosquito.</b> Grecia Gabriela Hernández Díaz, Guillermo Perales Ortiz, Alejandro Alvarado Delgado, Humberto Lanz Mendoza. CISEI. Instituto Nacional de la Salud Pública
IP-17	<b>Expression of EhCP1 in the bacterial periplasm and effect of the redox environment on its structure and function.</b> Ekaterina Jalomo Khayrova, Alexis Zarahy Minchaca Acosta, Patricia Lilián Alejandra Muñoz Muñoz, Rosa Elena Mares Alejandre, Samuel Guillermo Meléndez López, Marco Antonio Ramos Ibarra. Facultad de Ciencias Químicas e Ingeniería, Universidad Autónoma de Baja California
IP-18	<b>Searching for a peptidic natural ligand of Aminopeptidase N/ CD13, a phagocytic receptor.</b> Georgina Ivette Lopez Cortes, Ortega Soto Enrique. Instituto de Investigaciones Biomédicas, UNAM
IP-19	<b>Cloning, expression, and characterization of the recombinant mitosomal inorganic pyrophosphatase from <i>Entamoeba histolytica</i> (EhIPP) and homology-based prediction of its three-dimensional structure.</b> Samuel Guillermo Meléndez López, Marco Antonio Ramos Ibarra, Rogelio Rodríguez Sotres. Facultad de Ciencias Químicas e Ingeniería, Universidad Autónoma de Baja California
IP-20	<b>Gene silencing of an amebic protein disulfide isomerase (EhPDI).</b> Patricia Lilián Alejandra Muñoz Muñoz, Rosa Elena Mares Alejandre, Samuel Guillermo Meléndez López, Alexei Fedorovich Licea Navarro, Marco Antonio Ramos Ibarra. Facultad de Ciencias Químicas e Ingeniería, Universidad Autónoma de Baja California
IP-21	<b>Profilin: Expression and identification of its ligands in <i>Trypanosoma cruzi</i>.</b> Juan Felipe Osorio Méndez, Rebeca Manning, Santiago Martínez, Roberto Hernández, Ana María Cevallos. Departamento de Biología Molecular y Biotecnología. UNAM
IP-22	<b>Characterization and detection of hydrolytic enzymes from <i>Toxoplasma gondii</i> RH strain in whole-cell extract and excretory/secretory products.</b> Carlos Jorge Ramírez Flores, Mónica Mondragón Castelán, Rossana Arroyo Verástegui, Guillermo Ávila Flores y Ricardo Mondragón Flores. CINVESTAV IPN
IP-23	<b>Assessment of the involvement of protein kinase Eh-GSK3 in adhesion and phagocytosis of <i>Entamoeba histolytica</i>.</b> José Manuel Ramírez Merino, Lorenza Pintor Capulin, Eduardo Castañeda Saucedo, Napoleón Navarro Tito, Cecilia González Calixto and Mercedes Calixto Gálvez. Universidad Autónoma de Guerrero
IP-24	<b>Two P2X1 receptor isoforms form heteromeric channels.</b> Rodríguez Meléndez Jessica, López López Cintya, Gómez Coronado K. Sarahí, Espinosa Luna Rosa, Barajas López Carlos. División de Biología Molecular, IPICYT
IP-25	<b>Participation of the humoral and cellular activity in hemolymph of crayfish <i>Cherax quadricarinatus</i> challenge with β-1,3 glucan.</b> Yesenia Sánchez Salgado, José Luis Sánchez Salgado, Ma. Concepción Agundis Mata, Alí Pereyra Morales, Luis Fernando Cruz García, Edgar Galindo Zenteno, Claudia Sierra Castillo. Laboratorio de Biología Celular, Facultad de Ciencias Biológicas, UAEM
IP-26	<b>Hsa from <i>Streptococcus gordoni</i> induces the priming of neutrophils.</b> Ismael Secundino Velázquez, Yvonne Rosenstein. Instituto de Biotecnología, UNAM
IP-27	<b>P2X receptors in human macrophages.</b> Vargas Martínez Eydie M., López Lopez Cintya, Portales Pérez Diana P, Espinosa Luna R, Miranda Morales Marcela, Barajas López. IPICYT
IP-28	<b>Effect of the VSP9B10A protein from <i>Giardia duodenalis</i> on the intestinal epithelium, using gerbils (<i>Meriones unguiculatus</i>) as experimental model of giardiasis.</b> Yéssica Vázquez Cóbix, Fonseca Liñán Rocío, Daniel D. Hernández Cueto, Gómez Jiménez Luz María, Huerta Yépez Sara, Ortega Pierres M. Guadalupe. CINVESTAV. Zácatenco
IP-29	<b>Gene expression and cytotoxicity of <i>Trichomonas vaginalis</i> during interaction with prostatic cells mediated by Zn<sup>2+</sup>.</b> Laura Isabel Vázquez Carrillo, Edgar Yebrán Villegas Vázquez, José Luis Villalpando, Mauricio Castañón Arreola, María Elizabeth Alvarez Sánchez. Posgrado de Ciencias Genómicas, UACM
IP-30	<b>Expression of actin 2, an actin variant of <i>Trypanosoma cruzi</i>, and identification of some of its ligands.</b> Andrea Cristina Vizcaíno Castillo, Rebeca Manning Cela, Roberto Hernández, Ana María Cevallos. Instituto de Investigaciones Biomédicas, UNAM

IP-31	<b>Effect of a Recombinant Probiotic on Lung Inflammation in an Experimental Asthma Model.</b> <i>Daniel Cervantes García, Pamela Gallegos Alcalá, Cristian Vargas García, Luis Miguel Haro Jr Cornejo, Mariela Jiménez Vargas, Alicia Hernández Mercado, Claudia Berenice Barrón García, María de Jesús Loera Arias, Odila Saucedo Cárdenas, Roberto Montes de Oca Luna, Eva María Salinas Miralles.</i> Departamento de Microbiología, Centro de Ciencias Básicas, Universidad Autónoma de Aguascalientes
IP-32	<b>B cells respond via germinal centers to produce anti-lipid IgG antibodies.</b> <i>Claudia Albany Reséndiz Mora, Carlos Wong Baeza, Alonso Rubén Tescucano Alonso, Sandra Sánchez Barbosa, Viridiana Galicia Galicia, Jessica Cervantes López, Carlos Wong Ramírez, María Isabel Baeza Ramírez.</i> Departamento de Bioquímica, Escuela Nacional de Ciencias Biológicas, Instituto Politécnico Nacional

## NEUROSCIENCES AND NEUROLOGY

NN-1	<b>The Role of Autophagy During the Mouse Neural Tube Closure.</b> <i>Pilar Sarah Acevo Rodríguez, Diana Escalante Alcalde, Susana Castro Obregón.</i> Instituto de Fisiología Celular, UNAM
NN-2	<b>Activation of hippocampal adult neurogenesis in response to a context-fear memory task after an excitotoxic focal dentate gyrus lesion.</b> <i>Andrea Aguilar Arredondo, Clorinda Arias Álvarez, Angélica Zepeda Rivera.</i> Instituto de Investigaciones Biomédicas, UNAM
NN-3	<b>Sympathetic fat denervation improvement the metabolic alteration caused for Sleep restriction.</b> <i>Lucia Engracia Azuara Alvarez, Adrian Baez Ruiz, Nadia Saderi, Roberto Carlos Salgado Delgado.</i> Facultad de Ciencias, Universidad Autónoma de San Luis Potosí
NN-4	<b>Nicotine effect in a Parkinson's disease model induced by human α-Synuclein and Synphilin expression in <i>Drosophila melanogaster</i>.</b> <i>Luis Angel Carvajal Oliveros, Nancy Ashley Pérez Arizmendi, René Hernández Vargas, Enrique Alejandro Reynaud Garza.</i> Instituto de Biotecnología, UNAM
NN-5	<b>In vitro and in vivo neuroprotective activity of scammonin 1 and tyrianthin C isolated from root of Ipomoea tyrianthina.</b> <i>José Manuel Castro García, Lucero Valladares Cisneros, Juana Villeda Hernández, Ismael León Rivera, María Del Carmen Gutiérrez Villafuerte.</i> CEIB.Universidad Autónoma del Estado de Morelos
NN-6	<b>Modulation of gene expression of the REST/NRSF Complex by TIME-RESTRICTED Feeding in a pharmacological seizure model.</b> <i>Edit Michelle Delgado Galán, Octavio Fabián Mercado Gómez y Rosalinda Guevara Guzmán.</i> Facultad de Medicina, UNAM
NN-7	<b>The recombinant five disulfide-bonded spider toxin rOxyTx1 is an insecticide peptide that block calcium channels in cockroach dorsal unpaired median (DUM) neurons.</b> <i>Georgina Estrada, Gerardo Corzo, Anita O. Silva, Elba Villegas, Ernesto Otíz, Paulo Sergio Beirao.</i> Centro de Investigación Científica de Yucatán A.C.
NN-8	<b>Malva parviflora immunomodulatory effect in a mouse model of Alzheimer's disease.</b> <i>Cristina E. Ramírez Serrano, Jaime Totoriello García, Enrique Jiménez Ferrer, Maribel Herrera Ruiz, Alejandro Zamilpa Alvarez, Gustavo Pedraza and Leonor Pérez Martínez.</i> Laboratorio de Neuroinmunobiología, Departamento de Medicina Molecular y Bioprocessos, Instituto de Biotecnología, UNAM
NN-9	<b>Isoforms of REST in vertebrates evolutionarily distant vertebrates.</b> <i>Evaristo Priego Adilene, Liborio Bautista Amarilis, Valdés Flores Jesús, Napoleón Navarro Tito, Olga Lilia Garibay Cerdanares, Ortúñoz Pineda Carlos.</i> Universidad Autónoma de Guerrero
NN-10	<b>Effect of Krill oil in the hippocampus of adult rats with seizures induced by pentylenetetrazole and febrile seizures at five postnatal days.</b> <i>Gloria Isabel Girón de la Cruz, Fridha Viridiana Villalpando Vargas, Laura Guadalupe Medina Ceja and Leopoldo Flores Mancilla.</i> Centro Universitario de Ciencias Biológicas y Agropecuarias. Universidad de Guadalajara
NN-11	<b>Characterization of TRPV1 glycosylation.</b> <i>Ameyalli Gómez Illescas, Alejandra Llorente Gil, Félix Sierra Ramírez, Tamara Rosenbaum, Sara L. Morales Lázaro.</i> Instituto de Fisiología Celular, UNAM

<b>NN-12</b>	<b>Glycyrrhizin ameliorates oxidative stress and inflammation in hippocampus and olfactory bulb in lithium/pilocarpine-induced status epilepticus in rats.</b> <i>Susana González Reyes, Juan Jair Santillán Cigales, Angélica Saraí Jiménez Osorio, José Pedraza Chaverri, Rosalinda Guevara Guzmán.</i> Facultad de Medicina, UNAM
<b>NN-13</b>	<b>Role of autophagy in the physiological aging of the brain and the establishment of a senescent phenotype.</b> <i>Elisa Gorostieto Salas, Daniel Moreno Blas, Susana Castro Obregón.</i> Instituto de Fisiología Celular, UNAM
<b>NN-14</b>	<b>Analysis of the 5-HT1A Receptor in Major Depressive Disorder in rat.</b> <i>Daniel Juárez Serrano, Carlos Enrique Ochoa Velasco, Obdulia Vera López, Teresa Soledad Cid, Patricia Aguilar Alonso.</i> Facultad de Ciencias Químicas, Universidad Autónoma de Puebla
<b>NN-15</b>	<b>Sigma 1 Receptor as a novel regulator of the TRPV1 ion channel.</b> <i>Rebeca Juárez Contreras, Miguel Ortíz Rentería, Felix Sierra Ramírez, Tamara Rosenbaum, Sara L Morales Lázaro.</i> Instituto de Fisiología Celular, UNAM
<b>NN-16</b>	<b>Effect of chronic Krill oil diet on epileptiform activity induced in adult rats by Pentylenetetrazole and with febrile seizures at 5 postnatal days.</b> <i>Adriana Marisol Lara Vazquez, Fridha Viridiana Villalpando Vargas, Laura Guadalupe Medina Ceja, Leopoldo Flores Mancilla.</i> Centro Universitario de Ciencias Biológicas y Agropecuarias, Universidad de Guadalajara
<b>NN-17</b>	<b>Isoforms of REST in vertebrates evolutionarily distant vertebrates.</b> <i>Liborio Bautista Amarilis, Evaristo Priego Adilene, Valdés Flores Jesús, Napoleón Navarro Tito, Olga Lilia Garibay Cerdanares, Ortuño Pineda Carlos.</i> Universidad Autónoma de Guerrero
<b>NN-18</b>	<b>Effect of neonatal administration clomipramine (CMI) on expression of RE<math>\alpha</math> and RE<math>\beta</math> in dorsal raphe nucleus.</b> <i>Ofelia Limón Morales, Marcela Arteaga Silva, Marco Antonio Cebón Cervantes, Herlinda Bonilla Jaime.</i> Facultad de Química, UNAM
<b>NN-19</b>	<b>Evaluation of <i>Lopezia racemosa</i> extract with anti-inflammatory activity in a mouse model for the study of Alzheimer's disease.</b> <i>Wilver Montes Dorantes, Carolina Abarca Camacho, Ma. Del Carmen Gutiérrez Villafuerte.</i> Centro de Investigación en Biotecnología, Universidad Autónoma del Estado de Morelos
<b>NN-20</b>	<b>Effect of a synthetic hypothalamic hormone on body composition and mRNA Expression of Ghrelin and lipoprotein lipase.</b> <i>Carlos Olvera Sandoval, Quintanar Stephano Andrés, Betanzos Cabrera Gabriel, Quintanar Stephano José Luis.</i> Centro de Ciencias Básicas. Universidad Autónoma de Aguascalientes
<b>NN-21</b>	<b>Novel regulators of TRPV1 ion channel: effects in pain and itch sensations.</b> <i>Miguel Ortíz Rentería, Tamara Rosenbaum, Sara Luz Morales Lázaro.</i> Instituto de Fisiología Celular, UNAM
<b>NN-22</b>	<b>Kinetics of serum proinflammatory cytokines in a murine model of Alzheimer's disease.</b> <i>María de la Luz Pérez Uscanga, Luis Manuel Castillo, Priscila Judith Torres Granados, Luis Felipe Montaño Estrada, Erika Patricia Rendón Huerta.</i> Facultad de Medicina, UNAM
<b>NN-23</b>	<b>Analysis of cytoskeletal proteins from spinal cord neurons of rat embryo treated with gonadotropin releasing hormone (GnRH).</b> <i>José Luis Quintanar Stephano, Denisse Calderón Vallejo, Irma Hernández Jasso.</i> Centro de Ciencias Básicas, Universidad Autónoma de Aguascalientes
<b>NN-24</b>	<b>Abnormal expression of matrix metalloproteases 9 and 2 in individuals with Alzheimer's disease.</b> <i>Luis Abraham Rosales García, Mario Hernández Alejandro, José Luna Muñoz, José Eduardo Pérez Salazar, Pedro Cortés Reynosa.</i> Instituto Politécnico Nacional
<b>NN-25</b>	<b>Role of enteric glia in mesenteric afferent nerve activity.</b> <i>Ruiz Velarde Gabriela, Villalobos Hernández E. Criseida, Ochoa Cortés Fernando, Christofi Ferias Leontin, Espinosa Luna Rosa, Barajas López Carlos, Miranda Morales Marcela.</i> Instituto Potosino de Investigación Científica y Tecnológica A.C.
<b>NN-26</b>	<b>STIM and Orai as molecular biomarkers in calcium regulation in Alzheimer's disease.</b> <i>Andres Salas Casas, Ana Laura Cano Martínez, Mario Alberto Rodríguez Rodríguez, José Luna Muñoz, Irma Zúñiga Hernández, Ana Hilda Figueroa Gutiérrez, David López Romero.</i> Universidad Autónoma del Estado de Hidalgo

<b>NN-27</b>	<b>Role of reactive oxygen species in palmitic acid-induced neuronal insulin resistance.</b> <i>Karina Sánchez Alegría, Patricia Ferrera, Clorinda Arias. Instituto de Investigaciones Biomédicas, UNAM</i>
<b>NN-28</b>	<b>Time-restricted feeding exerts anti-inflammatory and neuroprotective effects on acute seizure model.</b> <i>Juan Jair Santillán Cigales, Jorge Landgrave Gómez, Octavio Fabián Mercado Gómez, Rosalinda Guevara Guzmán. Facultad de Medicina, UNAM</i>
<b>NN-29</b>	<b>Effect of Taurine in the Progenitor-like Cell Generation from Müller Glia of mice.</b> <i>Carlos de Jesús Torres Rosas, Rubén Zamora, Luis Fernando Hernández Zimbrón, Hugo Quiroz, Lenin David Ochoa De la Paz. Facultad de Medicina, UNAM</i>
<b>NN-30</b>	<b>Functional expression of metabotropic glutamate receptors in the vestibular system of chicken embryo.</b> <i>Ricardo Varela Rodriguez, Eduardo Monjaraz, Jorge Cebada, Amira Flores. Universidad Autónoma de Puebla</i>
<b>NN-31</b>	<b>Effect of prolactin on microglial activation and expression of proinflammatory cytokines in the hippocampus of male rat pups.</b> <i>Guadalupe Zinzun Ixta, Alejandra Ochoa Zarzosa, María de la Luz Torner Aguilar. Universidad Michoacana de San Nicolas de Hidalgo</i>

## TOXICOLOGY AND PHARMACOLOGY

<b>TP-1</b>	<b>Evaluation Of The Anti-inflammatory Capacity Of Methanol Extracts Of Wild Plants In Southern Sonora.</b> <i>Luis Alberto Zamora Alvarez, Edgar Felipe Moran Palacio, Keisy Gabriela Velderrain Díaz, Norma Patricia Adan Bante, José Guadalupe Soñanez Organis. Universidad de Sonora</i>
<b>TP-2</b>	<b>In vivo parameters in a model of type 2 diabetes mellitus in rats treated with pioglitazone.</b> <i>Samuel Álvarez Almazán, Feliciano Tamay Cach, Diana Alemán González Duhart, Gustavo Guevara Balcázar, Jessica Elena Mendieta Wejebe. Escuela Superior de Medicina, IPN</i>
<b>TP-3</b>	<b>Effect of a novel thiazolidinedione derived analogue on in vitro insulin-like response.</b> <i>Anaguiven Avalos Soriano, Diana Alemán González Duhart, Jessica Elena Mendieta Wejebe. Escuela Superior de Medicina, IPN</i>
<b>TP-4</b>	<b>CYP2C9*3 Genetic Variant Is Independently Associated with Glycemic Control in Type 2 Diabetes Patients Treated with Glibenclamide.</b> <i>Osvaldo Daniel Castelán Martínez, Carlos Hoyo Vadillo, Miguel Cruz, Tania Berenice Bazán Soto, Adán Valladares Salgado. FES Zaragoza, UNAM</i>
<b>TP-5</b>	<b>Characterising the toxic activity profile of <i>Caybdea marsupialis</i> venom.</b> <i>Miguel Cuevas Cruz, Ulises Hernández Guzmán, Judith Sánchez Rodríguez, Francisco Miguel García Guerrero y Guerrero, Michelle Palacios Velasco, Viviana Edith Romero Cortés, José Fernando Lazcano Pérez, Roberto Arreguín Espinosa de los Monteros, Barbarín Arreguín Lozano. Instituto de Química, UNAM</i>
<b>TP-6</b>	<b>A novel therapy for breast cancer triple negative mediated tumor suppression through mTOR inhibition and glycolysis aerobic.</b> <i>Izamary Delgado Waldo, Veronica García Castillo, Eduardo López Urrutia, Nadia Jacobo Herrera, Carlos Pérez Plasencia. FES Iztacala, UNAM</i>
<b>TP-7</b>	<b>Molecular analysis of cell death type induced therapy coadyuvant: doxorubicin-metformin and sodium oxamate as inhibitors of the mTOR pathway and glycolysis cell model in a triple negative breast cancer.</b> <i>Verónica García Castillo, Nadia J. Jacobo Herrera, Eduardo López Urrutia, Luis E. Gómez Quiroz, Carlos Pérez Plasencia. FES Iztacala, UNAM</i>
<b>TP-8</b>	<b>Analysis of the presence of adducts of Benzo [a] pyrene in the DNA of placental tissue as a measure to environmental genotoxic compounds exposure during pregnancy.</b> <i>Maria del Carmen Garcia de Leon Mendez, Marie O'Neill, Jorge Beltrán Montoya, Vanesa Morales, Violeta Castro Leyva, Erika Chavira Suarez, Felipe Vadillo Ortega. Facultad de Medicina, UNAM</i>
<b>TP-9</b>	<b>Role of angiotensin II in adrenergic vascular contraction during Diabetes Mellitus.</b> <i>Danny Peniel García Treviño, Asdrúbal Aguilera Méndez, Zurisaddai Hernández Gallegos, Daniel Godínez Hernández. Michoacana de San Nicolás de Hidalgo</i>
<b>TP-10</b>	<b>Detection of galphimines through TLC, HPLC, and <math>^1\text{H}</math> NMR in natural populations of the Mexican plant <i>Galphimia glauca</i> Cav. (Malpighiaceae).</b> <i>Reinier Gesto Borroto, Jan Schripsema, Alexandre Cardoso Taketa, María Luisa Villarreal Ortega. Universidad Autónoma del Estado de Morelos</i>

TP-11	<b>Pinocembrin ameliorates metabolic disturbances of diabetic nephropathy.</b> Jessica Granados Pineda, J. Fausto Rivero Cruz, Jazmin PérezRojas. Instituto Nacional de Cancerología
TP-12	<b>Antioxidant and antimicrobial activity of <i>Costuspulverulentus</i> extracts: a plant used in HuastecaPotosina traditional medicine.</b> Angel León Buitimea, Asdrúbal Flores Montoya, Vicente Olvera González, Brenda Alvarado Sánchez, Abigail Reyes Mungía. Universidad Autónoma de San Luis Potosí
TP-13	<b>Neurotoxic effects of early exposure to the herbicide atrazine during the development of zebrafish (<i>Danio rerio</i>).</b> Mayra López Cervantes, Selma Torres Valles, Everardo Gutiérrez, Verónica Rodríguez Córdova, Ulises Bardullas. Universidad Autónoma de Baja California
TP-14	<b>Hepatoprotective effect of <i>Callistemon citrinus</i> on paracetamol induced liver toxicity in rats.</b> Alejandro López Mejía, Patricia Ríos Chávez, Daniel Godínez Hernández, Blanca Nateras Marín. Universidad Michoacana de San Nicolas de Hidalgo
TP-15	<b>Peptide toxins modulate progesterone-induced Ca<sup>2+</sup> influx through CatSper ion channel in human sperm.</b> Arlet del Carmen Loza Huerta, Elizabeth Cervantes Ibarra, Héctor Cardoso, Alejandro Alagón, Lourival Possani, Arturo Hernández, Alberto Darszon, Arturo Picones Medina. Instituto de Fisiología Celular, UNAM
TP-16	<b>Melatonin effect on lead bio-distribution.</b> Minerva Martínez Alfaro, Yolanda Alcaraz Contreras, Juvenio Robles, Alberto Flores, Marco Antonio García, Karla Soto Arredondo, Erick Díaz Cervantes. Universidad de Guanajuato
TP-17	<b>Antitumor activity of extract of <i>Ficuscrocata</i> in breast cancer cells MDA-MB-231.</b> Miguel Angel Mendoza Catalán, Jhonathan Uriel Castillo Reyes, Gabriela García Prudente, Karina Melquiades Campos, Patricia Álvarez Fitz, Carlos Ortúño Pineda, Napoleón Navarro Tito, Marco Antonio Leyva Vázquez, Ana Elvira Zacaapala Gómez. Universidad Autónoma de Guerrero
TP-18	<b>Perinatal administration of bisphenol A alters the expression of tight junction proteins in the uterus and reduces the implantation rate.</b> Annia A. Martínez Peña, Jorge Rivera, Marcos Ramírez, Laura Méndez, Aarón Galindo, J. Carlos Páez Franco, Sumiko Morimoto, Lorenza González Mariscal, M. Esther Cruz, C. Adriana Mendoza Rodríguez. UNAM
TP-19	<b>Differential expression of drug transporters associated with chemoresistance in soft tissue sarcomas from child: Comparison between tumor and normal tissue.</b> Dora Molina Ortiz, Carmen Torres Zárate, Araceli Vences Mejía, José Martín Palacios Acosta, Daniel Hernández Arrazola, Rocío Cárdenas Cardós, Jaime Shalkow Kalincovstein. Instituto Nacional de Pediatría
TP-20	<b>Antinflamatory activity of isolated sesquiterpenic compounds from <i>P. decompositum</i>.</b> Beatriz Mora Ramiro, Rosario Wendoline Rosiles Alanis, Rosario Tavera Hernández, Francisco Javier Alarcón Aguilar, Manuel Jiménez Estrada, Julio Cesar Almanza Pérez. Universidad Autónoma Metropolitana Unidad Iztapalapa
TP-21	<b>Bioguided isolation of antifungal compounds form <i>Zizyphus obtusifolia</i>.</b> Edgar Felipe Moran Palacio, Luis Alberto Zamora Alvarez, Rossana Guadalupe GuiradoChávez, Guadalupe González Ochoa, Ramona IcedoGarcía. Universidad de Sonora
TP-22	<b>Evaluation of antioxidant activity of <i>Callistemon citrinus</i> on subacute oral toxicity in male Wistar rats.</b> Patricia Ríos Chávez, Salvador Pérez Mora, Alejandro López Mejía, Daniel Godínez Hernández, Blanca Nateras Marin. Universidad Michoacana de San Nicolas de Hidalgo
TP-23	<b>Biotin supplementation has no detrimental effects on oxidative stress markers but induces genotoxicity in mice.</b> Leticia Riverón Negrete, Sicilia Argumedo Gloria, Álvarez Delgado Carolina, Fernández Mejía Cristina. Unidad de Genética de la Nutrición, INP. IIB, UNAM
TP-24	<b>Evaluation of the antimicrobial activity of short variants of arachnid antimicrobial peptides.</b> Alexis J. Rodríguez Solís, Elba C. Villegas Villarreal, Gerardo A. Corzo Burguete, María Belem Jiménez Huicochea, Johana Martínez Paula. Universidad Autónoma del Estado de Morelos
TP-25	<b>Cytotoxic activity by a peptide from the venom of the centipede <i>scolopendra polymorpha</i> in the HeLa cell line.</b> Arturo Ronces Alvarado, María del Carmen Gutiérrez Villafuerte. Universidad Autónoma del Estado de Morelos

<b>TP-26</b>	<b>Cucurbita FicifoliaBouché effects over energetic balance and inflammatory mediators on co-cultured adipocytes and macrophages.</b> <i>Wendoline Rosiles Alanis, Julio Almanza Pérez, Ángeles Fortis Barrera, Alejandro Zamilpa Álvarez, Beatriz Mora Ramiro, Francisco Javier Alarcón Aguilar.</i> Facultad de Ingeniería Ambiental, Universidad Autónoma Metropolitana Unidad Iztapalapa
<b>TP-27</b>	<b>Preclinical screening of CD44 antagonist in breast cancer cells.</b> <i>Angel Ruiz Moreno, Charmina Aguirre Alvarado, Aldo Segura Cabrera, Marco Velasco Velázquez.</i> Facultad de Medicina, UNAM
<b>TP-28</b>	<b>Cadmium exposure produces insulin resistance, impaired insulin signaling and steatosis in liver of Wistar rats.</b> <i>Victor Enrique Sarmiento Ortega, Eduardo Brambila, José Ángel Flores Hernández, Patricia Aguilar Alonso, Diana Moroni, Alfonso Díaz, Samuel Treviño.</i> Facultad de Ciencias Químicas, Universidad Autónoma de Puebla
<b>TP-29</b>	<b>Two antidepressants with different mechanisms reduce behavioral deficits in a rat model of major depression.</b> <i>Jocelyn Soto Esquivel, Evoli López Morán, Eduardo Miguel Brambila Colombres, Julio César Morales Medina, Patricia Aguilar Alonso.</i> Benemérita Universidad Autónoma de Puebla
<b>TP-30</b>	<b>Venom fractions of <i>Scolopendra polymorpha</i> with myotoxic activity on mice.</b> <i>Judith Tabullo De Robles, Francisca Fernández Valverde, Lucero Valladares Cisneros, Juana Villeda Hernández, Ma. Del Carmen Gutiérrez Villafuerte.</i> Centro de Investigación en Biotecnología, Universidad Autónoma del Estado de Morelos
<b>TP-31</b>	<b>Implementation of an inexpensive system to evaluate the effect of environmental contaminants on motor behavior in zebrafish (<i>Danio rerio</i>).</b> <i>Selma Sofia Torres Valles, Everardo Gutiérrez López, Ulises Pacheco Bardullas.</i> Facultad de Ciencias, Universidad Autónoma de Baja California
<b>TP-32</b>	<b>Protective effect of Theophylline in aorta versus toxic effect of TiO<sub>2</sub> in wistar rats.</b> <i>Francisco Moisés Treviño González, Rosa María Chávez Morales, Salvador Acevedo Martínez, Ma. Consolación Martínez Saldaña.</i> Universidad Autónoma de Aguascalientes

## SIGNAL TRANSDUCTION

<b>ST-1</b>	<b>Logical model of the Wnt/B-catenin pathway in neonatal and adult human CD8<sup>+</sup> T cells.</b> <i>Oscar Bruno Aguilar Luviano, Otoniel Rodríguez Jorge, Gerson Ney Hernández Acevedo, María Angélica Santana Calderón.</i> Centro de Investigación en Dinámica Celular, Universidad Autónoma del Estado de Morelos
<b>ST-2</b>	<b>Zinc role in mouse spermatogenic cells.</b> <i>Karla Lisette Andrade López, Paulina Torres Rodríguez, Ignacio López González, Julio César Chávez Zamora, Claudia Lydia Treviño Santa Cruz.</i> Instituto de Biotecnología, UNAM
<b>ST-3</b>	<b>Primary Hepatocytes Undergo an Epithelial to Mesenchymal Transition in Response to TGF-beta Signaling.</b> <i>Yuli Aranda López, Diana G. Ríos López, Marcela Sosa Garrocho, Marina Macías Silva.</i> Instituto de Fisiología celular, UNAM
<b>ST-4</b>	<b>Identification of microRNAs Modulated During Osteoblastic Differentiation of Human Mesenchymal Stem Cells (CD105<sup>+</sup>).</b> <i>Mariana Melisa Avendaño Félix, Lizeth Fuentes Mera, Vanessa Pérez Silos, Nidia Moncada Saucedo, Selem Tórres Méndez, Maribel Aguilar Medina, Rosalío Ramos Payán, Laurence A. Marchat, César López Camarillo.</i> Laboratorio de Inmunología y Microbiología. Facultad de Ciencias Químico Biológicas, Culiacán, Sinaloa
<b>ST-5</b>	<b>The cancer associated Gpn3-Q279* mutant is defective to support RNA polymerase II nuclear targeting.</b> <i>Angel Adán Barbosa Camacho, Lucía E. Méndez Hernández, Bárbara Lara Chacón, Sonia G. Peña Gómez, Violeta Romero, José A. Guerra Moreno, Rogelio González González, Angélica Y. Robledo Rivera, Roberto Sánchez Olea, Mónica R. Calera.</i> Instituto de Física, Universidad Autónoma de San Luis Potosí
<b>ST-6</b>	<b>Effect of overexpression of dystroglycan on the physiology of HL-60 cells.</b> <i>Tizziani Benítez Guerrero, Ivette Martínez Vieyra, Lea Alonso Rangel, Bulmaro Cisneros Vega, Doris Atenea Cerecedo Mercado.</i> Escuela Nacional de Medicina y Homeopatía, Instituto Politécnico Nacional

ST-7	<b>Ca<sup>2+</sup> Signal Evoked by Histamine in Normal Human Lung Fibroblasts.</b> Roberto Berra Romani, José Alonso Romero, Francesco Moccia, Franco Tanzi, Luis Guillermo Vázquez de Lara. Facultad de Medicina, Benemérita Universidad Autónoma de Puebla
ST-8	<b>Evaluation of treatment of second degree burns with adipose derived mesenchymal stem cell using human radiosterilized amnion and pig skin as scaffolds.</b> Beatriz del Carmen Cabello Arista, Martínez Pardo María, Velasquillo Martínez Cristina, Sánchez Sánchez Roberto. Instituto Nacional de Rehabilitación
ST-9	<b>The role of MAPKKK Ste11 in stress responses of <i>Trichoderma atroviride</i>.</b> Gabriela Calcáneo Hernández, Fidel Landeros Jaime, José Antonio Cervantes Chávez, Alfredo Herrera Estrella, Edgardo Ulises Esquivel Naranjo. Universidad Autónoma de Querétaro
ST-10	<b>Effect of hydrogen sulfide on yeast autophagy.</b> Anaid Alethia Cádido López, Paola Moreno Álvarez Francisco Torres Quiroz. Instituto de Fisiología Celular, UNAM
ST-11	<b>Analysis of of UAP56 homologue (RNA helicase) participation in the mRNA export of C6/36 cell line derived from <i>Aedes albopictus</i>.</b> Antonio Celestino Montes, Abel Trujillo Ocampo, José Ángel Rubio Miranda, Fernando Medina Ramírez, Leticia Cortés Martínez, Febe Elena Cazares Raga, Rosa María Del Ángel, Fidel de la Cruz Hernández Hernández. CINVESTAV Zácatenco
ST-12	<b>Estrogen-mediated down-regulation of E-cadherin in breast cancer cells is mediated by c-Src and promotes cell migration and invasion.</b> Fabiola Córdova Gerón, Baní Isaí Menor Calderón, Carlos Lara Cruz, Pablo Damián Matsumura, Javier Esteban Jiménez Salazar. UAMI
ST-13	<b>PKCz-CDP-FIH-HIF status at early stages of renal carcinogenesis and tumors induced by ferric nitrilotriacetate.</b> Patricia Curiel Muñiz, José Solano, Francisco Aguilar Alonso, Telma Pariente Pérez, María Elena Ibarra Rubio. Facultad de Química, UNAM
ST-14	<b>Invadopodia formation and matrix metalloprotease secretion during epithelial-mesenchymal transition induced by leptin in MCF10A epithelial cells.</b> Jose Luis Dena Beltrán, Miriam Daniela Zuñiga Eulogio, Miguel Ángel Mendoza Catalán, Sócrates Villegas Comonfort, Fernando Candanedo González, Napoleón Navarro Tito. Facultad de Ciencias Químico Biológicas, Universidad Autónoma de Guerrero
ST-15	<b>Estudio de la fosfolipasa D en los mecanismos de migración e invasión inducidos por ácido linoleico en células de cáncer de mama MDA-MB-231.</b> Ricardo Díaz Aragón, Nathalia Serna Marquez, Alejandra Paola García Hernández, José Eduardo Pérez Salazar. CINVESTAV Zácatenco
ST-16	<b>Characterization of protein complexes associated to the phosphatidylinositol 3-kinase during <i>Phaseolus vulgaris</i> rhizobia interaction.</b> Claudia V. Dorantes Torres, Georgina Estrada Navarrete, Rosario Vera, Carmen Quinto, Federico Sánchez <sup>†</sup> . Instituto de Biotecnología, UNAM
ST-17	<b>The effect of hyperglycemia on the expression of stress proteins of endoplasmic reticulum and vascular smooth muscle cell (VSMC) migration from normal rats.</b> Ricardo Espinosa Tanguma, Rebeca Mejía Elizondo, Aurelio Hernández Méndez. Facultad de Medicina, Universidad Autónoma de San Luis Potosí
ST-18	<b>Non-Classical Effects of Androgens in Muscle Cells.</b> Dennys Paola Ferreyra Picazo, Jesús Alberto Olivares Reyes. CINVESTAV Zácatenco
ST-19	<b>Isolation, characterization and neural differentiation of Wharton's Jelly Mesenchymal Stem Cells from Human Umbilical Cord.</b> Flores Reyes Josiff Samuel, Oscar Pérez Pérez, Sandra R. Cruz Bárcenas, Ismael Mancilla Herrera, Mauricio Domínguez Castro, Higinio Estrada Juárez, Mónica Aguinaga Rios, Enrique Reyes Muñoz, José Romo Yáñez. Departamento de Genómica Humana, Instituto Nacional de Perinatología
ST-20	<b>Apigenin regulates the expression of inflammatory kinases induced by LPS of <i>Porphyromonas gingivalis</i> in cell line H9c2.</b> Flores Sánchez Mónica Arisbet, Gloria Gutiérrez Venegas. Departamento de Investigación en Posgrado. Facultad de Odontología, UNAM
ST-21	<b>Effects of p-Chloroamphetamine (pCA) on Follicular Development and Apoptosis in Prepuberal Rat.</b> Magaly García Galicia, Andrés Aragón Martínez, Maribel Flores Flores, María Elena Ayala Escobar. FES Zaragoza, UNAM

<b>ST-22</b>	<b>Native type I collagen induces an epithelial to mesenchymal transition process in mammary epithelial cells MCF10A.</b> Alejandra Paola García Hernández, Ricardo Diaz Aragon, Pedro Cortes Reynosa Eduardo Perez Salazar. CINVESTAV Zácatenco
<b>ST-23</b>	<b>Regulatory Mechanisms of Tumor Endothelium Marker 4 (ARHGEF17).</b> Irving García Jiménez, Daniel Cervantes Villagrana, Alejandro Castillo Kauil, Sendi Rafael Adame García, Víctor M. Color Aparicio, Guadalupe Reyes Cruz, José Vázquez Prado. CINVESTAV Zácatenco
<b>ST-24</b>	<b>The effect of hydrogen sulfide in the transcriptome of <i>Saccharomyces cerevisiae</i>.</b> Cynthia García Nieves, Francisco Torres Quiroz. Instituto de Fisiología Celular, UNAM
<b>ST-25</b>	<b>Role of TOR signaling pathway during <i>Azospirillum-Arabidopsis</i> interaction.</b> Manuel Méndez Gómez, Elda Castro Mercado, Ernesto García Pineda. Universidad Michoacana de San Nicolas de Hidalgo
<b>ST-26</b>	<b>Generation of Reporter Lines for the Study of MPK6 Role in the Development of Root Hairs in <i>Arabidopsis thaliana</i>.</b> Isabel García Torres, León Patricia, Guevara García Ángel Arturo, López Bucio Jesús Salvador. Instituto de Biotecnología, UNAM
<b>ST-27</b>	<b>c-Src inhibitor induces cell migration and invasion through the estrogen-mediated pathway in a Triple-Negative Breast Cancer cell line.</b> Rosa Icela García Vázquez, Isaí Bani Menor Calderón, Carlos Lara Cruz, Pablo Damián Matsumura, Javier Esteban Jiménez Salazar. Universidad Autónoma Metropolitana
<b>ST-28</b>	<b>GRP78 and ATF6 expression in low-high grade intraepithelial neoplasia and cervical cancer produced by HPV16.</b> Alma Delia Hurtado Mercado, Rafael Gutiérrez Campos. Universidad Autónoma de Aguascalientes
<b>ST-29</b>	<b>Does <i>Fagopyrum esculentum</i> encode an ABC transporter involved in Aluminum tolerance?</b> Gutiérrez Granados Natalia, Cruz Ortega Rocío. Instituto de Ecología, UNAM
<b>ST-30</b>	<b>Function of the peroxisome ubiquitination complex in the sexual development of the fungus <i>Podospora anserine</i>.</b> Claudia Zirián Martínez, Fernando Suaste Olmos, Leonardo Peraza Reyes. Instituto de Fisiología Celular, UNAM
<b>ST-31</b>	<b>Activation of protein kinase C promotes <math>\alpha_{1B}</math>-adrenergic receptor late-endosome trafficking through Rab-9 interaction.</b> David A. Hernández Espinosa, Marco A Alfonzo Méndez, Gabriel Carmona Rosas, M. Teresa Romero Ávila, Guadalupe Reyes Cruz, J. Adolfo García Sáinz. Instituto de Fisiología Celular, UNAM
<b>ST-32</b>	<b>Analysis of the expression and subcellular localization of Retinoblastoma mutants.</b> Jesús Hernández Monge, Adriana B. Rousset R., Vanesa Olivares Illana. Instituto de Física, Universidad Autónoma de San Luis Potosí
<b>ST-33</b>	<b>Expression of the Receptor for Activated C Kinase 1 in the photosynthetic dinoflagellate <i>Symbiodinium</i> during light/dark and growth phases.</b> Tania T Islas Flores, Esmeralda Pérez Cervantes, Jessica Nava Galeana, Gabriel Guillén, Marco A. Villanueva Méndez. Unidad Académica de Sistemas Arrecifales, UNAM
<b>ST-34</b>	<b>Phosphorylation of maize ribosomal proteins is stimulated by ZmIGF during germination.</b> Laura Vanessa Jiménez Pérez, Lilia Angélica Bernal Gracida, Estela Sánchez Quintanar. Facultad de Química, UNAM
<b>ST-35</b>	<b>Leptin induces epithelial-mesenchymal transition in a Src-dependent pathway in mammary epithelial cells.</b> Juan Carlos Juárez Cruz, Eduardo Castañeda Saucedo, Miguel A. Mendoza Catalán, Carlos Ortúño Pineda, Raúl Martínez Orozco, Napoleón Navarro Tito. Facultad de Ciencias Químico Biológicas, Universidad Autónoma de Guerrero
<b>ST-36</b>	<b>Importance of PKCθ activity in the balance of activation of transcription factors AP-1, NFAT and NF-κB in human CD4 T lymphocytes and its implication on neonatal immunity.</b> Linda Aimara Kempis Calanis, Otoniel Rodríguez Jorge, María Angélica Santana Calderón. Centro de Investigación en Dinámica celular, Universidad Autónoma del Estado de Morelos
<b>ST-37</b>	<b>Effect of 100 IU of IL-2 on the proliferation of cervical carcinoma line HeLa and INBL.</b> María del Carmen Lagunas Cruz, Isabel Soto Cruz, Arturo Valle Mendiola, Benny Weiss Steider. FES Zaragoza, UNAM

<b>ST-38</b>	<b>GTPases Gpn1 and Gpn3 regulate nuclear entry of Rpb1, the largest subunit of RNA polymerase II, as a protein complex.</b> Bárbara Lara Chacón, Mónica R. Calera and Roberto Sánchez Olea. Instituto de Física, Universidad Autónoma de San Luis Potosí
<b>ST-39</b>	<b>Over-expression of Myelin and Lymphocyte Protein (MAL) reduces MUC1-C oncoprotein trafficking to the nucleus.</b> Antonio Roberto Lara Lemus, Mónica Flores Torres, Ana Karina Saldaña Villa. Instituto Nacional de Enfermedades Respiratorias Ismael Cosio Villegas
<b>ST-40</b>	<b>Extracellular vesicles from MDA-MB-231 breast cancer cells stimulated with linoleic acid promote migration through PI3K/Akt signaling pathway in MCF10A cells.</b> Elizabeth Leal Orta, Octavio Galindo Hernandez, Javier Ramirez Ricardo, Eduardo Perez Salazar. Departamento de Biología Celular, CINVESTAV Zácatenco
<b>ST-41</b>	<b>Identification of the phosphorylated proteins by the Protein Kinase C during macrophage infection with <i>M. bovis</i>.</b> Rafael Maldonado Bravo, Edgardo Madrid Paulino, Tomás Villaseñor Toledo, Leonor Pérez Martínez, Gustavo Pedraza Alva. Instituto de Biotecnología, UNAM
<b>ST-42</b>	<b>Participation of ERK and Kpna2 in the nuclear translocation of Rac1 in HaCaT cells in response to estrogens.</b> Angélica Martínez López, Estefanía Yoceli Ojeda Muñiz, Patricia Garibo Nogeda, Mercedes Calixto Gálvez, Miguel A. Mendoza Catalán, Napoleón Navarro Tito, Eduardo Castañeda Saucedo. Laboratorio de Biología Celular del Cáncer, Universidad Autónoma de Guerrero
<b>ST-43</b>	<b>A New MDM2-MDMX heterodimer independent of C-terminal RING-RING interaction induced by ATM.</b> Ixaura Medina Medina, Vanesa Olivares Illana. Instituto de Física, Universidad Autónoma de San Luis Potosí
<b>ST-44</b>	<b>Characterization of a novel family of proteins involved in cholesterol transport.</b> Kevin Manuel Méndez Acevedo, Julián Valdés, Alexander Asanov, Luis Vaca. Instituto de Fisiología Celular, UNAM
<b>ST-45</b>	<b>Role of TOR signaling pathway during <i>Azospirillum-Arabidopsis</i> interaction.</b> Manuel Méndez Gómez, Ernesto García Pineda, Elda Castro Mercado. Instituto de Investigaciones Químico Biológicas, Universidad Michoacana de San Nicolas de Hidalgo
<b>ST-46</b>	<b>EXPANSIN gene family in <i>Lotus japonicus</i>: Identification, characterisation and expression analysis in response to symbiosis.</b> Sudipta Kumar Mohanty, Manoj Kumar Arthikala, Kalpana Nanjareddy and Miguel Lara. Instituto de Biología, UNAM
<b>ST-47</b>	<b>Effect of biotin on adipocyte differentiation.</b> Ericka Moreno Méndez, Cristina Fernández Mejía. Unidad de Genética de la Nutrición. UNAM
<b>ST-48</b>	<b>The expression of NR4A receptors and autophagy as part of the DNA damage response.</b> Gabriel Muciño Hernández, Daniel Moreno Blas, Susana Castro Obregón. Instituto de Fisiología Celular, UNAM
<b>ST-49</b>	<b>Role of Ser/Thr or Tyr protein kinase phosphatases on MAPK Tmk3 signaling in <i>Trichoderma atroviride</i>.</b> Omar Nieves Ugalde, Fidel Landeros Jaime, José Antonio Cervantes Chávez, Alfredo Herrera Estrella, Edgardo Ulises Esquivel Naranjo. Facultad de Ciencias Naturales, Universidad Autónoma de Querétaro
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