

**NOTA:**

El programa sólo menciona al autor ponente. Los coautores están indicados en los resúmenes que se integrarán en la memoria electrónica y será publicada en la página del congreso la primera semana de noviembre.

**Salón Ixtapa**

Hotel Azul Ixtapa

**INFORMACIÓN SOBRE LAS PRESENTACIONES EN CARTEL**

- Deberán ser instalados antes de las 10am del día que les haya sido asignado y retirados el mismo día al terminar la sesión.
- Habrá material disponible para pegar su trabajo (velcro), no está permitido utilizar material que raye, perforo o dañe las mamparas.
- Las mamparas serán retiradas el **jueves 8** a partir de las 17.00 hrs, por lo que el Comité Organizador no se hará responsable de ningún trabajo olvidado.

**Carteles**

- La dimensión de los carteles será de 90 cm de ancho X 130 cm de alto.
- Se solicita elaborarlos en inglés, aunque la exposición será en el idioma que prefiera.
- El formato es libre, aunque se sugiere que incluya la información indicada a continuación:
- Título
  - Autor(es)
  - Institución
  - Dirección
  - Correo Electrónico
- Cuerpo del Cartel
  - Introducción
  - Objetivo(s)
  - Metodología
  - Resultados (Figuras y Tablas) y Discusión
  - Conclusiones
  - Referencias Bibliográficas Seleccionadas (máximo cinco)
- Agradecimientos
- Tipo de Fuente: Arial, tamaño mínimo recomendado 24.

**SYSTEMS BIOLOGY & BIOINFORMATICS I**

- SB-1** Proteomics and metabolomics for Southwest of Mexico from CICY. **Aguilar-Hernández V.** Unidad de Bioquímica y Biología Molecular de Plantas, CICY.
- SB-2** Conformational changes regulate the half-life of proteins of the Bcl-2 family. **Luis Alberto Caro Gómez.** Bioquímica y Biofísica Computacional, ENMH, IPN
- SB-3** Evaluation of the role of Spo0B as limiting factor in the information processing and decision making of the sporulation system of *B. subtilis*. **Nori Castañeda Gómez.** Instituto de Biotecnología, UNAM
- SB-4** Viral metagenomic comparative analysis of the deep-sea hydrothermal vents. **Hugo G. Castelán Sánchez.** Instituto de Investigación en Ciencias Básicas y Aplicadas, UAEM
- SB-5** Important ribosomal mutations are revealed by genomics of *Avibacterium paragallinarum*. **María Elena Cobos Justo.** Instituto de Ciencias. BUAP
- SB-6** Secretome prediction of Two *M. tuberculosis* clinical isolates reveals their high antigenic density and potential drug targets. **Fernanda Cornejo-Granados.** Instituto de Biotecnología, UNAM
- SB-7** The genetic interaction landscape of long lived mutants in *Saccharomyces cerevisiae*. **Erika Viridiana Cruz Bonilla.** Unidad de Genómica Avanzada. LANGEBIO. CINVESTAV
- SB-8** Congenital absence of uterus: elucidation of the gene modules involved in the development of the female urogenital tract. **Fernando Fernández.** Unidad de Genética, Hospital General de México
- SB-9** Functional analysis of genes expressed during cell differentiation of *Sclerotium cepivorum* Berk. **David Alberto García Estrada.** División de Ciencias Naturales y Exactas. Universidad de Guanajuato
- SB-10** Identification of trans-acting riboswitches in bacterial genomes. **Edgar Rodríguez García.** Departamento de Microbiología Molecular. Instituto de Biotecnología – UNAM
- SB-11** Behavior of the antimicrobial peptides Pin2 and Pin2GVG in membranes. Molecular Dynamics Simulations. **Ramón Garduño-Juárez.** Instituto de Ciencias Físicas, UNAM
- SB-12** Characterization of the docking mechanism of peptide variants of discrepin on the Kv4.3 potassium channel. Molecular dynamics simulations. **Ramón Garduño-Juárez.** Instituto de Ciencias Físicas, UNAM
- SB-13** Phylogenetic analysis of members of the MAP kinase family (MAPK) in Viridiplantae. **José Manuel González-Coronel.** Instituto de Biotecnología, UNAM
- SB-14** A matrix-based stoichiometric model of *Helicobacter hepaticus* metabolism. **José I. Hernández-Oropeza.** Faculty of Engineering, Universidad La Salle México
- SB-15** Cracking the mysteries of zygotic embryogenesis in avocado by systems biology. **Janet Juarez-Escobar.** Instituto de Ecología A.C
- SB-16** Metabolic role of aldehyde dehydrogenases in *Pseudomonas aeruginosa* PAO1. **Adriana Julián-Sánchez.** Facultad de Medicina, UNAM

- SB-17** Identification and analysis of the genes involved in the biosynthetic pathways of cellulose and lignin in *Agave tequilana* Weber. **Luis Fernando Maceda López**. Colegio de Postgraduados Campus Campeche

### BASIC BIOCHEMISTRY I

- B-1** Does SPC13, an antimicrobial activity found in the venom of the *scolopendra polymorpha*, also have histone H3 properties? **Carolina Abarca Camacho**. Centro de Investigación en Biotecnología. UAEM
- B-2** Purification and characterization of the paralogous enzymes *Bat1* and *Bat2* of *Saccharomyces cerevisiae*. **Beatriz Aguirre López**. Department of Biochemistry and Structural Biology, Instituto de Fisiología Celular. UNAM
- B-3** The role of renal betaine aldehyde dehydrogenase in the carnitine biosynthesis. **José Alberto Alcantar-Ibarra**. Ciencias Químico-Biológicas y Agropecuarias, Universidad de Sonora Unidad Regional Sur
- B-4** Development of a computational algorithm for designing inhibitors under a fragment-based approach. **María Fernanda Álvarez Esquinca**. Departamento de Bioquímica y Biología Estructural, Instituto de Fisiología Celular. UNAM
- B-5** RNA Aptamer selection to *Rickettsia rickettsia*. **Ana Mercedes Andrade Aguilar**. Facultad de Medicina. Universidad Autónoma de Baja California
- B-6** The regulation of metabolic syndrome and hepatic damage in an experimental model by an adenosine derivated. **Alejandro Rusbel Aparicio-Cadena**. Instituto de Fisiología Celular, UNAM
- B-7** Validation of biomarkers for the detection of *Helicobacter pylori*-associated gastric cancer. **Arenas Linares Ana Silvia**. Universidad Autónoma del Estado de Morelos
- B-8** Characterization of the reaction center spectrum of *Rhodovibrio salinarum*. **Andrés Arenas Navarro**. Department of Molecular Genetics, Institute of Cellular Physiology. UNAM
- B-9** Construction of an endoxifen binding protein with high affinity and selectivity. **Emma Liliana Arévalo-Salina**. Ingeniería Celular y Biotecnología, Instituto de Biotecnología, UNAM
- B-10** Modulating hydrolysis/transfer function through the analysis of inter-residue protein contacts in the alpha-amylase enzyme family. **Rodrigo A. Arreola-Barroso**. Instituto de Biotecnología, UNAM
- B-11** *Phaseolus vulgaris* rhizosphere stimulates *Rhizobium* conjugation: home, food and love? **Luis Alfredo Bañuelos-Vázquez**. Ingeniería Genómica. Centro de Ciencias Genómicas, UNAM
- B-12** Effect of glucose concentration on the activity of ubiquitin E3 ligase of Mdm2. **Raul Barzalobre Geronimo**. Investigación Médica en Bioquímica. Centro Médico Nacional Siglo XXI. IMSS
- B-13** Participation of residue E261 in the structural stability of the glucose-6-phosphate dehydrogenase from *Pseudomonas aeruginosa*. **Edaena Benítez-Rangel**. Facultad de Estudios Superiores Iztacala, UNAM

- B-14** Differential gene expression analysis between *Heliopsis longipes* and *Heliopsis annua* to identify genes related to Alkamides Biosynthesis. **Génesis V. Buitimea-Cantúa**. CINVESTAV Irapuato
- B-15** The amino-terminal region of Pet309 is important to interact with its Mrna target and with mitoribosome. **Yolanda Camacho-Villasana**. Departamento de Genética Molecular, Instituto de Fisiología Celular. UNAM
- B-16** Chemical and biological analysis of methanolic extract from pomegranate (*Punica granatum* L) leaves with antibacterial activity against *Ralstonia solanacearum*. **Manuel Carrillo-Morales**. Universidad Politécnica del Estado de Morelos
- B-17** GLP-1r Activation Decreases HIF-1A Expression in the Kidney after Ischemia Reperfusion in Obese Rats. **Susana Del Carmen Castro-Meza**. Ciencias Químico-Biológicas y Agropecuarias. Universidad de Sonora
- B-18** Characterization of gluconeogenic activity in Intermittent Fasting. **Silvia Cristina Cervantes Gutiérrez**. Institute of Neurobiology. National Autonomous University of Mexico
- B-19** Ligand based pharmacophore modeling and virtual screening to find new benzimidazole derivatives as potential PTP1B inhibitors. **Alondra Sarahi Chaidez Avila**. Facultad de Medicina y Nutrición, Universidad Juárez del Estado de Durango
- B-20** Effect of IFC-305 on autophagy in the sequential model of CIRRHOSIS-HCC and in vitro. **Chávez E**. Instituto de Fisiología Celular, UNAM
- B-21** The role of oxidative stress and gender in the erythrocyte arginine metabolism and ammonia management in patients with TYPE 2 diabetes. **Martha L. Contreras-Zentella**. Biología Celular y Desarrollo. Instituto de Fisiología Celular, UNAM
- B-22** Cloning and biochemical characterization of three Glucose-6-Phosphate Dehydrogenase mutants presents in the Mexican population. **Yadira Yazmín Cortés-Morales**. Instituto Nacional de Pediatría. SS.
- B-23** NaStEP stability in pollen tubes accounts for self-incompatibility in *Nicotiana glauca*. **Yuridia Cruz-González Zamora**. Facultad de Química, UNAM
- B-24** Effect of heavy metals on *Ustilago maydis* respirasome. **Jaime Abraham de Lira Sánchez**. Departamento de Bioquímica. Facultad de Medicina, UNAM
- B-25** C-terminal amidation - Identification and expression of the amidating enzyme PAM from Scorpion *Centruroides noxius*. **Gustavo Delgado Prudencio**. Departamento de Medicina Molecular y Bioprocesos, Instituto de Biotecnología, UNAM
- B-26** Isolation and characterization of the N66 protein from the mother oyster pearl shell *Pinctada mazatlanica*. **Rosa Virginia Dominguez Beltran**. Laboratorio de Genética Molecular. CIBNOR
- B-27** Biosynthesis of ATP in mitochondria from skeletal and cardiac muscle: Effect of metabolic syndrome and aging. **Mohammed El-Hafidi**. Instituto Nacional de Cardiología "Ignacio Chávez"
- B-28** Characterization of the triosephosphate isomerase from *Encephalitozoon intestinalis*. Proposal of a new pharmacological target. **Sergio Enríquez Flores**. Instituto Nacional de Pediatría

- B-29** The conformational landscape of proteins: study of de novo designed TIM barrels. **Sergio Romero-Romero**. Facultad de Medicina, UNAM

## BIOTECHNOLOGY I

- BT-1** Expression of single chain variable fragment scFv 6009F in *Pichia pastoris*. **Mariel Adame Román**. Centro de investigación en Biotecnología. UAEM
- BT-2** Permutations of the loops of Ts1 by those of the neurotoxin CsslI: in vitro folding and specificity on voltage-dependent sodium channels. **Germán Obed Aguilar Carlos**. Instituto de Biotecnología, UNAM
- BT-3** Characterization of extracellular enzymatic extract obtained from *Phlebia floridensis* strain isolated from Yucatan Peninsula with a novel peroxidase and oxidase profile. **Roberto Amezcua-Novelo**. Tecnológico Nacional de México
- BT-4** Analysis of cellulases produced by microorganisms isolated from sites contaminated by heavy metals. **Alondra Andrade González**. Unidad Profesional Interdisciplinaria de Ingeniería campus Guanajuato. IPN
- BT-5** Stabilization of Cytochrome P450 from *Bacillus megaterium*, through changes in positions C774A and C1000A in its Reductase domain. **Manuel Alejandro Arévalo Salina**. Universidad Autónoma Benito Juárez de Oaxaca
- BT-6** Purification and characterization of the extracellular laccase of *Didymosphaeria* sp. (syn.= *Paraconiothyrium brasiliense* sensu lato). **Marina Arredondo-Santoyo**. Facultad de Medicina Veterinaria y Zootecnia, Universidad Michoacana
- BT-7** Identification and characterization of the biotechnological potential of a wild strain of *Didymosphaeria* sp. (syn.= *Paraconiothyrium brasiliense* sensu lato). **Marina Arredondo-Santoyo**. Universidad Michoacana
- BT-8** Characterization of the protein extract of the *Bromelia karatas* fruit and its antimicrobial activity against *Candida albicans*, *Salmonella typhimurium* and *Listeria monocytogenes*. **Elva Avalos-Flores**. Tecnológico Nacional de México
- BT-9** Redox metabolites production of *Pseudomonas aeruginosa* NEJ01R using biodiesel process wastewaters. **Francisco Javier, Bacame-Valenzuela**. Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C
- BT-10** Fungi molecular identification of Tar Spot Complex on corn. **Rosibel Bahena Oregón**. Universidad Autónoma de Guerrero
- BT-11** Overexpression of dehydrin DHN1 and rubisco activase in maize plants transformed by the intragenic method. **Raymundo Belmont Valadez**. Departamento de Bioquímica, Facultad de Química, UNAM
- BT-12** Development of a recombinant protein GroEL of *B. canis*, for use as a diagnostic antigen for canine brucellosis. **Nancy Belem Beltrán Maldonado**. Faculty of Veterinary Medicine and Zootechnics
- BT-13** Removal of the Synthetic Dye Remazol Brilliant Blue R by Bioadsorption on Biomass from *Aspergillus* spp. **Irma Bernal Lugo**. Facultad de Química, UNAM
- BT-14** Neuronal localization assays of Rapamycin-loaded PLGA nanoparticles for potential treatment of Spinocerebellar Ataxia type 7. **Fabiola Vianet Borbolla-**

**Jiménez.** Instituto Nacional de Rehabilitación “Luis Guillermo Ibarra Ibarra”

- BT-15** *Bacillus thuringiensis* as: growth factor and bioinsecticide helped by a synergistic protein. **Martha Cecilia Bravo Rivas.** Division Life Sciences, University of Guanajuato
- BT-16** Development of monitoring oxygen and carbon dioxide transfer rate (OTR and CTR) device and cotton closure simulation during *Pichia pastoris* shake flask cultures. **Daniel Cabrera Santos.** Instituto de Investigaciones Biomédicas, UNAM
- BT-17** Extraction and chemical and functional characterization of squalene, starch and protein of *Amaranthus* species. **Oscar de Jesús Calva Cruz.** División de Biología Molecular. Instituto Potosino de Investigación Científica y Tecnológica A.C.
- BT-18** Influence of *SNF1* gene on glycolytic flux addressed to aerobic fermentation (Crabtree effect) of *Saccharomyces cerevisiae*. **Andres Carrillo-Garmendia.** Instituto Tecnológico Superior de Ciudad Hidalgo
- BT-19** Morphological study of dedifferentiation process on *Rosmarinus officinalis* leaf explants by digital image analysis. **Yessica Casales-Tlatilpa.** Centro de Desarrollo de Productos Bióticos. IPN
- BT-20** Characterization chromatography of the avocado seed. **Dolores Castañeda-Antonio.** Instituto de Ciencias, CICM. BUAP
- BT-21** Citric acid effect in fungal tolerance to chromium stress. **Oscar-Guadalupe Castillo-Martínez.** Instituto Tecnológico Superior de Irapuato
- BT-22** Neutralizing capacity of a hyperimmune sera from *Crotalus durissus terrificus* snake venom conjugates. **Irene Maria Castillo Perez.** Instituto de Biotecnología, UNAM
- BT-23** Cofactor specificity engineering of a Water-Forming NADH oxidase from *Giardia lamblia* as Universal Regenerating System for Redox Reactions. **Adriana Castillo Villanueva.** Laboratorio de Bioquímica-Genética. Instituto Nacional de Pediatría
- BT-24** Composite coating of AgNP'S with antimicrobial activity. **Berenice Castro Rodriguez.** Centro de Investigación y Desarrollo Tecnológico en Electroquímica
- BT-25** Secondary metabolites from *Metarhizium* with effect on bacteria. **Karla Yadira Cervantes-Quintero.** Departamento de Biología. División de Ciencias Naturales y Exactas, Universidad de Guanajuato
- BT-26** Silencing and overexpression of the aquaporin gene *pvpip 2-4* affect nodulation in *Phaseolus vulgaris*. **Mariana Esther Cesario Solis.** Biología Molecular de Plantas. Instituto de Biotecnología, UNAM
- BT-27** Isolation of bacteriophages for the treatment of *Pseudomonas aeruginosa* infections. **María I. Chávez Béjar.** Universidad Politécnica del Estado de Morelos
- BT-28** Detection of intestinal bacteria in drinking water and residuals. **Lorena Chávez González.** Unidad de Microarreglos de DNA, Instituto de Fisiología Celular, UNAM
- BT-29** Molecular characterization of *Pycnoporus* spp. **Lizbeth Coronel Pastor.** Centro de Investigación en Biotecnología, UAEM
- BT-30** Genetic characterization and selection of rhizobacteria from *Agave americana* L for use as biofertilizers. **Néstor Hugo Cruz Pérez.** Instituto Tecnológico de Tuxtla Gutiérrez

- BT-31** Expresión, purificación y caracterización fisicoquímica y estructural del dominio catalítico de la MMP-16, potencial blanco terapéutico contra Aterosclerosis y Cáncer. **Armando Cruz-Rangel**. Instituto Nacional de Medicina Genómica
- BT-32** Hydrocarbon degrading activity of a bacterial consortium isolated from sediments of the Gulf of Mexico. **Diego Humberto Cuervo Amaya** Instituto de Biotecnología, UNAM
- BT-33** Obtaining 3-hydroxyanthranilic acid from the liquid culture of *Pycnoporus cinnabarinus* for the synthesis of antibiotics. **Elizabeth Cuevas-Reyes**. Biotechnology Research Cente
- BT-34** Protective effect of acetonic extract of leaves of *Ficus* sp on oxidative damage in HaCaT cells. **Brenda de la Cruz Concepción**. Faculty of Biological Chemistry Sciences. Autonomous University of Guerrero
- BT-35** Prospecting and characterization of psychrophiles microorganisms plant growth promoters. **Irán Tapia Vázquez**. Centro de Investigación en Biotecnología. UAEM

### GENETICS, EPIGENETICS AND GENETIC REGULATION I

- GR-1** Protein dosage of the IldPRD operon depends on processing of the primary transcript. **Lidia Esmeralda Angel Lerma**. Genética Molecular, Instituto de Fisiología Celular. UNAM
- GR-2** Transcriptomic landscape of the radioresistance in breast cancer. **Elena Aréchaga Ocampo**. Metropolitan Autonomous University, Cuajimalpa Unit.
- GR-3** Advances in the molecular study of the musculoskeletal system in tropical gar (*Atractosteus tropicus*). **José Natividad Arias Jiménez**. Universidad Juárez Autónoma de Tabasco
- GR-4** Chia seeds extract modify the expression of *Nos3* and *Bdkrb2* genes in hypertensive rats. **Gerardo Ismael Arredondo-Mendoza**. Centro de Investigación en Nutrición y Salud Pública. Universidad Autónoma de Nuevo León
- GR-5** Minigenes as reporter systems for functional genomics. **Elizabeth Cavazos Benhumea**. Instituto Nacional de Medicina Genómica
- GR-6** Study of Mitochondrial DNA in Modern Nahuas from Central Mexico: Overview of the Genetic Relationships. **Víctor Hugo Avilés Chávez**. Departamento de Biología Celular, Facultad de Ciencias, UNAM
- GR-7** Effect of epigenetic drugs on regulation of *c-MYC* promoter in hepatic cell lines. **Paulina Janeth Barraza Reyna**. Centro de Investigación Biomédica del Noreste. Instituto Mexicano del Seguro Social
- GR-8** Impact of high fat diet on the intranuclear location of the circadian gene *Dbp*. **Fernando Becerril Pérez**. Instituto de Investigaciones Biomédicas, UNAM
- GR-9** HIF-1 and VEGF gene expression by valproate in human hepatome cells. **Mario Bermúdez de León**. Vicerrectoría de Ciencias de la Salud, Universidad de Monterrey. Centro de Investigación Biomédica del Noreste. IMSS
- GR-10** Metabolic regulation of  $\beta$ -NAC subunits in the yeast *Saccharomyces cerevisiae*. **José Ernesto Bravo Arévalo**. Departamento de Genética Molecular, Instituto de Fisiología Celular, UNAM

- GR-11** DNA methylation alterations in adipocytes derived from obese diabetic patients. **Federico Centeno Cruz.** Inmunogenómica y Enfermedades Metabólicas. Instituto Nacional de Medicina Genómica
- GR-12** Characterization of the microRNA-137 in the breast cancer cell line MDA-MB-231. **Andrea Viridiana Cervantes Ayala.** Hospital de Pediatría “Silvestre Frenk Freund”, CMN Siglo XXI, IMSS
- GR-13** Intra- and inter-plasmid regulation of conjugative transfer in *Sinorhizobium fredii* strain GR64. **Laura Cervantes-De la Luz.** Centro de Ciencias Genómicas, UNAM
- GR-14** Use of CRISPR-Cas9 to edit the promoter of the microRNA effector protein. **Diana Chavira Desales.** Instituto Nacional de Medicina Genómica
- GR-15** Functional effect of variants with uncertain clinical significance (VUS) of the BRCA1 / BRCA2 genes in Mexican women. **Manuel Misael Coca-González.** Facultad de Estudios Superiores Iztacala. UNAM
- GR-16** Methylation profile distinguishes different outcomes in patients with locally advanced cervix cancer. **Carlos Manuel Contreras-Romero.** Instituto Nacional de Cancerología
- GR-17** Characterization of mRNA methylation (m6A) in response to extracellular stimulus. **Perla Diana Coronado Monroy.** Instituto Nacional de Medicina Genómica
- GR-18** mir- 26a, epigenetic regulator associated with colorectal cancer. **Jossimar Coronel Hernández.** Facultad de Estudios Superiores Iztacala. UNAM
- GR-19** Evaluation of the expression level of miR-132, -203 and -212 in breast cancer tissue and its possible role as post-transcriptional regulators of BRCA-1, BRCA-2 and ATM. **Pablo Cortés Pérez.** Instituto Nacional de Cancerología
- GR-20** Characterization of epigenetic changes associated with the metabolic memory In vitro. **Martí David Wilson Verdugo.** Departamento de Biología Celular y del Desarrollo. Instituto de Fisiología Celular, UNAM
- GR-21** Second-site suppressors of mutations in essential genes RHE\_PE00001 and RHE\_PE00024 of *Rhizobium etli* CFN42 support a role in peptidoglycan synthesis. **Araceli Dávalos.** Centro de Ciencias Genómicas UNAM
- GR-22** Relationship between chromatin structure and gene expression linked to stress response in *Debaryomyces hansenii*. **Ileana de la Fuente Colmenares.** Laboratorio de Biología Molecular y Genómica, Facultad de Ciencias, UNAM
- GR-23** Estradiol effects on EZH2 expression in human glioblastoma cells. **Aylin Del Moral-Morales.** Unidad de investigación en Reproducción Humana. Instituto Nacional de Perinatología. Facultad de Química, UNAM
- GR-24** Rhizobium genomic edition using the CRISPR / Cas9 system. **Rafael Díaz Méndez.** Programa de Ingeniería Genómica, Centro de Ciencias Genómicas, UNAM
- GR-25** Negative Regulation of Serine Threonine Kinase 11 (STK11) through miR-100 in head and neck cancer. **Gabriela Figueroa González.** Laboratorio de Genómica. Instituto Nacional de Cancerología
- GR-26** Role of Transcription Factor NusG in the Adaptive Mutagenesis of *Bacillus subtilis*. **Guillermo de Jesús Flores Álvarez,** Universidad de Guanajuato



- GR-27** Evaluation of MMP2, Notch-1 and Snail1 in siHa cells transfected with members of the miR-34 family. **Ixamail Fraire Soto**. Laboratorio de microRNAs, Unidad Académica de Ciencias Biológicas, Universidad Autónoma de Zacatecas
- GR-28** High glucose-diet reduces *C. elegans* longevity by autophagy in an HLH-30/TFEB dependent manner. **Berenice Franco-Juárez**. Unidad de Genética de la Nutrición. Instituto de Investigaciones Biomédicas UNAM - Instituto Nacional de Pediatría
- GR-29** Stress induced expression of *SLM35* in *Saccharomyces cerevisiae*. **Hernán Romo-Casanueva**. Departamento de Genética Molecular, Instituto de Fisiología Celular, UNAM

## IMMUNOLOGY & PARASITOLOGY I

- IP-1** Evaluation of enzymes of clinical relevance in serum and hepatic tissue after abdominal surgery in rats. **Violeta Aburto Luna**. Facultad de Ciencias Químicas. BUAP
- IP-2** Genetic characterization of T cell and B cell receptors of California sea lion. **Aranzazu Arias-Rojas**. Facultad de Ciencias Naturales, Universidad Autónoma de Querétaro
- IP-3** Study of the death induced by *E. histolytica* trophozoites to different cell lines and its correlation with amebopore. **Barrón Oскоy Yurubi**. Research Unit in Experimental Medicine, Medicine Faculty UNAM
- IP-4** Low density neutrophils from healthy donors display an activated phenotype. **José Carlos Blanco Camarillo**. Instituto de investigaciones Biomédicas, UNAM
- IP-5** Molecular characterization of a rich cysteine protein from *Anopheles albimanus*: its possible involvement during the mosquito immune response. **Victor M. J. Cardoso-Jaime**. Centro de Investigación Sobre Enfermedades Infecciosas INSP
- IP-6** Levels of 17 $\beta$ -oestradiol and testosterone during the infection with *P. berghei* ANKA. **Luis Antonio Cervantes-Candelas**. Laboratorio de Inmunología Molecular, Facultad de Estudios Superiores Zaragoza, UNAM
- IP-7** Effect of *Cymbopogon citratus* and *Artemisia mexicana* on the expression of IL1 $\beta$  in mice infected with *P. berghei* ANKA. **López-Padilla MS**. Laboratorio de Inmunología Molecular, Facultad de Estudios Superiores Zaragoza, UNAM
- IP-8** Analysis of the expression of CD163 and TWEAK in macrophages and dendritic cells of patients with acute myocardial infarction and its correlation with cardiac function. **Laura Sherell Marín Jauregui**. CICSaB, Facultad de Medicina, UASLP
- IP-9** Insight about the lethal effect of curcumin on *Taenia crassiceps* cysticerci. **José de Jesús Martínez-González**. Departamento de Bioquímica, Facultad de Medicina, UNAM
- IP-10** Anti-*Trichomonas vaginalis* effect of tritrypticin-derived peptides. **Moisés Adrián Martínez-Padilla**. Departamento de Biología. Universidad de Guanajuato
- IP-11** The thioredoxin reductase from *Entamoeba histolytica* as a promising target against amoebiasis disease. **Yoalli Martínez Pérez**. Unidad de Investigación en Medicina Experimental, Facultad de Medicina, UNAM

- IP-12** Cell cycle characterization in the *Anopheles albimanus* midgut cells. **Krystal Maya Maldonado**. Center for Research and Advanced Studies of the National Polytechnic Institute
- IP-13** Cloning, purification and biochemical characterization of the recombinant Iron-Sulfur Flavoprotein of *Entamoeba histolytica*. **Paulina Mejía Del Castillo**. Facultad de Medicina, UNAM
- IP-14** Fecal Lactobacilli Count in BALB/c Mice Treated with Bovine Lactoferrin. **Melendez-Avalos Araceli**. Depto. Sistemas Biológicos, UAM-Xochimilco
- IP-15** Anti-*Trichomonas vaginalis* activity of hexanoic extract of avocado seed. **Blanca Yessenia Mendez-Grimaldo**. Universidad de Guanajuato
- IP-16** Recombinant protein harboring relevant epitopes from Influenza A H1N1, as a new candidate vaccine against flu. **Karen Lizbeth Reyes-Barrera**. División de Biología Molecular, IPICYT

### MEDICINE HEALTH & NUTRITION I

- MH-1** Study of calcium signaling generated by activation of a photosensitizing substance and its propagation in prostate cancer cells. **María Coral Aguilar Santos**. Instituto de Fisiología. Benemérita Universidad Autónoma de Puebla
- MH-2** Expression of the transcription factors HIF1a, HIF2a and HIF3a in pulmonary fibroblasts exposed to hypoxia. **Arnoldo Aquino-Gálvez**. National Institute of Respiratory Diseases "Ismael Cosío Villegas"
- MH-3** Participation of the STIM1 / Orai1 complex in cell proliferation and migration, induced by epidermal growth factor (EGF) in the MDA-MB 231 cell line. **Avalos-López Juan Manuel**. Instituto de Fisiología, BUAP
- MH-4** Salivary MMP-2 activity in Type 2 Diabetes Mellitus patients with Periodontitis, **Brenda Ayerdi Nájera**. Unidad de Innovación Clínica y Epidemiológica del Estado de Guerrero
- MH-5** Changes of urokinase-type plasminogen activator in breast cancer cells in presence of nicotinamide. **María Guadalupe Martínez Hernández**. Morphology and Function Unity, Faculty of Professional Studies Iztacala, UNAM
- MH-6** Identification of new mutations in *DYRK1B* associated with monogenic metabolic syndrome. **Francisco Barajas-Olmos**. Instituto Nacional de Medicina Genómica
- MH-7** ER- $\beta$  activation regulates expression of VEGF-C / VEGFR-3 complex in triple negative breast cancer cells. **Zuleyma Basilio Lino**. Instituto de Fisiología, BUAP
- MH-8** Immunophenotypic characterization of GMP-grade mesenchymal stem cells derived from human adipose tissue. **Mayra Y. Bazán-Álvarez**. Departamento de Bioquímica. Facultad de Medicina, UANL
- MH-9** Long-term analysis of the electrocardiogram as a method of evaluation of the development of hypertrophy in conscious rats with spontaneous hypertension. **Bocanegra Alfaro Ana Karina**. Institute of Physiology, BUAP
- MH-10** Participation of the heat shock protein 27 in the regulation of the death of chondrocytes in the articular cartilage of an experimental model of osteoarthritis. **Moisés Cabrera-González**. CINVESTAV-IPN

- MH-11** Effect of the intranasal vaccine HB-ATV-8 on atherogenesis and non-alcoholic fatty liver disease in a rabbit model of atherosclerosis. **Sandra Calixto Tlacomulco**. Instituto de Fisiología Celular, UNAM
- MH-12** Frequency of expression of TGF- $\beta$ RII and its association with sex steroid hormone receptors in ovarian serous carcinomas. **Argelia Calvillo Robledo**. Universidad Autónoma Metropolitana
- MH-13** Evaluation of the fibroine and the alginate as a biomaterial of scaffolding for the growth of cells from the vascular estromal fraction. **Susana G. Cardenas-Ramos**. Facultad de Medicina. Universidad Autonoma de Nuevo Leon
- MH-14** Expression profile and subcellular localization of the Heat Shock Proteins, Hsp90 $\alpha$  and Hsp90 $\beta$ , with the androgen receptor, allows to identify a patients subgroup with prostate cancer susceptible to the Hsp90 inhibition in primary cell cultures. **Rafael Castillo Negrete**. UNAM. Instituto Nacional de Cancerología
- MH-15** Expressions of metalloproteinases associated with p-ERK in ovarian tumors. **Castillo Sánchez Rocío**. Facultad de Medicina, UNAM
- MH-16** Biological implications of the proteins and microRNAs contained in hepatocellular carcinoma cells-derived extracellular vesicles. **Luis Alberto Castro Sánchez**. Centro Universitario de Investigaciones Biomédicas, Universidad de Colima
- MH-17** Effect of acetonic extract of *Ficus* spp. leaves on the migration capacity of tumour cells MDA-MB-23. **Lorena Cayetano Salazar**. Autonomous University of Guerrero
- MH-18** The expression the receptor of PRL and GH is regulated by the activation of estrogen receptor  $\beta$  (ER- $\beta$ ) of triple negative breast cancer cells. **Cecilia Cruz Neria**. Instituto de Fisiología, BUAP
- MH-19** Proteomic analysis of serum patients with insulin resistance. **Walter David Cruz Pineda**, Laboratory of Obesity and diabetes Research, Faculty of Chemical and Biological Sciences, University Autonomous of Guerrero
- MH-20** Protein levels of pIRE1, ATF6, pPERK and BiP (Unfolded Protein Response mediators) in keratoconus. **Francisco Emmanuel Cruz Trápala**. Centro de Ciencias de la Salud, Universidad Autónoma de Aguascalientes
- MH-21** Differential expression of proteins in an atypical presentation of Autoimmune Lymphoproliferative Syndrome. **Dulce Maria del Carmen Delgado-Álvarez**. Laboratorio Nacional de Servicios Experimentales. CINVESTAV
- MH-22** Infections in Pediatric Patients with Neoplasia and Neutropenia of the Instituto Estatal de Cancerología “Dr. Arturo Beltrán Ortega” Acapulco, Guerrero. **Sacnite del Mar Díaz González**. Instituto Estatal de Cancerología “Dr. Arturo Beltrán Ortega”
- MH-23** Atorvastatin and Rosuvastatin: undesirable side effects of high doses in hypercholesterolemic rodents. **Juan Cuauhtémoc Díaz Zagoya**. División de Investigación, Facultad de Medicina, UNAM
- MH-24** Hypoglycemic effect of the aqueous extract of Galeana leaves (*Spathodea campanulata*) in diabetic rats. **María del Socorro Escamilla Barrera**. Faculty of Medicine and Biological Sciences “Dr. Ignacio Chávez”, Michoacán University
- MH-25** Effect of *Spirulina maxima* in rats treated with fried oil as prooxidant. **María Teresa Espinosa García**. Depto. de Bioquímica, Facultad de Medicina, UNAM

- MH-26** TLR4 activation contributes to mesenchymal phenotype in U87 cells, favoring their metastatic potential. **Miriam Fernández-Gallardo**. CINVESTAV-IPN
- MH-27** PaDef defensin from avocado (*Persea americana* var. *drymifolia*) is cytotoxic to K562 chronic myeloid leukemia cells through extrinsic apoptosis. **Luis Jose Flores-Alvarez**. Facultad de Medicina Veterinaria y Zootecnia, Universidad Michoacana
- MH-28** Differential expression profile of heat shock proteins of 90kDa, Hsp90 $\alpha$  and Hsp90 $\beta$ , during the formation of 3D spheroids of hormone-sensitive and hormone-resistant prostate cancer cells. **Ilse Mariana Flores Hernández**. Instituto de Investigaciones Biomédicas, UNAM and Instituto Nacional de Cancerología

## MICROBIOLOGY & VIROLOGY I

- MV-1** Phylogenetic characterization of the genus Tobamovirus in children younger than six months of age. **Yarenci Aguado**. Instituto de Biotecnología, UNAM
- MV-2** Isolation and purification of *E.coli* DH5 $\alpha$  bacteriophages in wastewater and river water samples from Nuevo Leon, Mexico. **Anaí Amaral García**, Universidad Autónoma de Nuevo León
- MV-3** Participation of the  $\alpha$ -1 and  $\alpha$ -2 helices in the specificity of the toxin Cyt1Aa from *Bacillus thuringiensis* subsp. *israelensis*. **Paulina Anaya Cárdenas**. Instituto de Biotecnología, UNAM
- MV-4** The genetic variability of E7 HPV16 oncoprotein in cervical samples of woman from State of Guerrero. **Ramón Antaño Arias**. Facultad de Ciencias Químico Biológicas, Universidad Autónoma de Guerrero
- MV-5** Marine bacterial diversity with high potential to degrade pyrene isolated from Rosarito in Baja California. **Cynthia Lizzeth Araujo-Palomares**. Instituto de Investigaciones Oceanológicas, Universidad Autónoma de Baja California
- MV-6** Functional analysis of Rep and CP promoters of a natural mutant of Tomato yellow leaf curl virus (TYLCV). **Jesús Aarón Avalos-Calleros**. División de Biología Molecular, Instituto Potosino de Investigación Científica y Tecnológica
- MV-7** The role of microRNA-927 during the persistent infection with DENV serotype 2 in C6/36 mosquito cells. **Avila-Bonilla R. G.** Escuela Nacional de Medicina y Homeopatía, IPN
- MV-8** The *tyrR* gene encoding the transcriptional regulator TyrR from *Azospirillum brasilense* Sp7 is involved in catabolism of alanine. **Beatriz Eugenia Baca**. Centro de Investigaciones en Ciencias Microbiológicas, BUAP
- MV-9** Characterization of the response of *Arabidopsis thaliana* in interaction with auxin-producing rhizobacteria isolated from Chihuahuan Desert plants. **Fernando Balderas Hernández**. Universidad Juárez del Estado de Durango
- MV-10** Characterization of a putative component of the Fla 2 flagellar system of *Rhodobacter sphaeroides*. **Teresa Ballado**. Instituto de Fisiología Celular, UNAM
- MV-11** Determination of the regulatory network of quorum sensing in *Rhizobium leguminosarum* biovar *viciae* 248. **Lorena Y. Balón-Rosas**. Centro de Ciencias Genómicas, UNAM

- MV-12** Stress study in *Bacillus subtilis* by use of artificial ribo-regulators. **Diana Barceló-Antemate**. Universidad Autónoma del Estado de Morelos
- MV-13** Study of the regulation of PHB depolymerization in *Azotobacter vinelandii*. **Thalía Barrientos Millán**. Instituto de Biotecnología. UNAM
- MV-14** Characterization of chaperonine HpGroEL of *Helicobacter pylori*. **Selene Becerril-Huesca**. Universidad Autónoma de la Ciudad de México
- MV-15** Influence of foreign bus passengers in the composition of the microbiome of Mexico City subway. **Ana Luisa Bravo**. UAM Unidad Cuajimalpa
- MV-16** Inhibitory effect of the nanoparticled compound Nbelyax™ over viral and fungal respiratory pathogens. **Carlos Cabello Gutiérrez**. Instituto Nacional de Enfermedades Respiratorias “Ismael Cosío Villegas”
- MV-17** Cellular organization of the entomopathogenic fungus *Metarhizium anisopliae*. **Olga Alicia Callejas-Negrete**. Centro de Investigación Científica y de Educación Superior de Ensenada
- MV-18** Surveillance of Venezuelan equine encephalitis using cattle as sentinels in the Eastern Mexico-US transboundary region. **Castillo-Cervantes K**. FMVZ, UNAM
- MV-19** *In vitro* antagonistic activity of bacteria isolated from marine ecosystems against *Vibrio parahaemolyticus*, causal agent of Acute Hepatopancreatic Necrosis Disease (AHPND) in *Litopenaeus vannamei* cultures. **Gabriel Enrique Cázares Jaramillo**. Facultad de Ciencias Biológicas. UANL
- MV-20** Characterization of Merlin, a regulator of actin dynamics, in *Aedes* spp., mosquito vector of arboviruses. **Febe Elena Cázares-Raga**. Departamento de Infectómica y Patogénesis Molecular, CINVESTAV-IPN
- MV-21** Characterization of bacteria associated with the rhizosphere of amaranth from a crop with a forest matrix in Tochimilco, Puebla. **Verónica Cepeda Cornejo**. Facultad de Ciencias Biológicas, BUAP
- MV-22** The Abundance of bacteriophage CrAssphage in Mexican childrens with obesity it is related with enteric bacteria of gut microbiota. **Melany J. Cervantes Echeverría**. Departamento de Microbiología Molecular, Instituto de Biotecnología, UNAM
- MV-23** Comparative study between diarrhoeagenic *Escherichia coli* virotypes of the México City with virotypes of San Luis Potosí. **Ruth Adriana Cervantes-Olmos**. Facultad de Medicina, UNAM
- MV-24** Molecular characterization, phylogenetic analysis and replication of a new begomovirus infecting bean in Nayarit, Mexico. **Martínez-Marrero Nadia**. División de Biología Molecular, Instituto Potosino de Investigación Científica y Tecnológica

## SIGNAL TRANSDUCTION I

- ST-1** Fc gamma RIIIb induces extracellular calcium influx without mobilization of calcium from intracellular deposits, in human neutrophils. **Omar Rafael Alemán**. Instituto de Investigaciones Biomédicas. UNAM
- ST-2** Role of p53 and mutants (R175H and R273H) over canonical pathway of Wnt on a model of Cancer Stem Cells. **Eduardo Alvarado Ortiz**. Unidad de Investigación Biomédica en Cáncer, Instituto de Investigaciones Biomédicas, UNAM

- ST-3** Mechanisms of secretion of the TGF- $\beta$  cytokine from melanoma cells and its actions on mast cells. **Isabel Anaya Rubio**. Departamento de Biología Celular y Desarrollo, Instituto de Fisiología Celular, UNAM
- ST-4** Heterologous calcium-dependent inactivation of Orai by neighboring TRPV1 channels modulates cell migration and wound healing. **Carlos Ernesto Bastian-Eugenio**. Instituto de Fisiología Celular, UNAM
- ST-5** Evaluation of anticancer capacity of exotic fruits: *Nephelium Lappaceum*, *Melicoccus bijugatus*, *Manilkara zapota* via the modulation of intracellular SUMOylation processes. **Gisela M Basto-López**. Juárez Autonomous University of Tabasco
- ST-6** P-Rex1, a signaling platform and effector of the G $\beta\gamma$ -PI3K $\gamma$ -mTORC1/2 pathway involved in cell migration. **Yarely Mabell Beltrán-Navarro**. Departments of Pharmacology and Cell Biology. CINVESTAV-IPN
- ST-7** Antiproliferative effect of white and brite adipocytes co-culture with lung cancer cells A549. **Dulce María Caraveo Gutiérrez**. Universidad Autónoma de Querétaro
- ST-8** Aquaporins in *Saccharomyces cerevisiae* potentially presents a differential role in the regulation of cell volume. **Chávez-Vega A**. Faculty of Natural Science. Autonomus University of Querétaro
- ST-9** PKCz involvement in the HIF protein levels regulation through GSK3b during experimental renal carcinogenesis. **Patricia Curiel-Muñiz**, Departamento de Biología. Facultad de Química, UNAM
- ST-10** Identification of the Guanine Nucleotide Exchange Factor VAV1 as a Novel Target of the Protein Tyrosine Phosphatase 1B. **Olga Villamar Cruz**. Unidad de Investigación en Biomedicina, Facultad de Estudios Superiores Iztacala, UNAM
- ST-11** Activation of the MAP Kinase Pathway by Testosterone and DHT is Dependent on Src/EGF-R but Independent on the Intracellular Androgens Receptor in C2C12 Muscle Cells. **Dennys Paola Ferreyra-Picazo**. CINVESTAV-IPN
- ST-12** Effect of Human Serum on IR/Akt/p70S6K Signaling in Breast Cancer Cells. **Laura C. Flores García**, Instituto de Investigaciones Biomédicas UNAM
- ST-13** Resistin induces an epithelial to mesenchymal transition-like process in mammary epithelial cells MCF10A. **Octavio Galindo Hernández**. Departamento de Bioquímica, Facultad de Medicina, Universidad Autónoma de Baja California
- ST-14** Expression of TF antigen and moesin in MCF-7 cells stimulated with LPS. **Luis Miguel García Cruz**. Instituto Tecnológico de Oaxaca-Tecnológico Nacional de México
- ST-15** Characterization of LjROPs interactome change in *Lotus japonicus* roots upon inoculation by symbiotic bacteria *Mesorhizbium loti*. **Ivette García Soto**. Centro de Ciencias Genómicas, UNAM
- ST-16** Regulation of the Wnt/ $\beta$ -catenin pathway in hepatocellular carcinoma by an adenosine derivative. **Nuria Guerrero-Celis**. Instituto de Fisiología Celular, Departamento de Biología Celular y del Desarrollo, UNAM
- ST-17** IL-2 rescues peripheral blood mononuclear cells from apoptosis induced by cervical cancer cells. **Adriana Gutiérrez-Hoya**. Laboratorio de Oncología Molecular, FES Zaragoza, UNAM

- ST-18** Capsaicin Inhibit both force production of isolated skeletal muscle and physical performance of intact mice in an administration route dependent manner. **Ana Maria Guzman Ambriz**. Universidad de Colima,
- ST-19** Structural and functional analyses of mammalian sperm-specific Na<sup>+</sup>/H<sup>+</sup> Exchanger (sNHE) imply that the mammalian sNHEs are differently regulated according to species. **Sandra Hernández-Garduño**. Instituto de Biotecnología, UNAM
- ST-20** Evaluation of the protein expression and localization of Retinoblastoma mutants. **Jesús Hernández-Monge**. Instituto de Física, UASLP
- ST-21** Impact of O-GlcNAcylation over the PI3-kinase/Akt pathway in Oral Squamous Cell Cancer. **Daniela Illescas Barbosa**. Faculty of Medicine, Autonomous University Benito Juárez of Oaxaca
- ST-22** The G-protein  $\beta$  subunit, Gpb1, regulates virulence in *Mucor circinelloides*. **Marco Iván Valle-Maldonado**. Laboratorio de Diferenciación Celular, Instituto de Investigaciones Químico Biológicas, Universidad Michoacana de San Nicolás de Hidalgo





**BASIC BIOCHEMISTRY II**

- B-30** Deletion of the complex V-dimerizing subunit g and its effect on the mitochondrial bioenergetics in *Ustilago maydis*. **Mercedes Esparza-Perusquía**. Bioquímica, Facultad de Medicina, UNAM
- B-31** Atomic structure of Ornithine Decarboxylase from *Saccharomyces cerevisiae*: Solving the mechanism of its dual activity. **Jessica Georgina Filisola Villaseñor**. CINVESTAV Zacatenco
- B-32** Effect of heavy metals on the ATPase activity of the V<sub>2</sub> and V<sub>1</sub> from *Ustilago maydis*. **Giovanni García-Cruz**. Departamento de Bioquímica. Facultad de Medicina, UNAM
- B-33** Non-classical hydrophobic effect in the recognition of hydrophobic ligands by bovine odorant binding protein. **Enrique García Hernández**. Instituto de Química, UNAM
- B-34** Hypoxia effects on matrix metalloproteinases expression in lung cancer. **Antonio Armando García Hernández**. National Institute of Respiratory Diseases
- B-35** Analysis of *in vivo* interaction of Ribonuclease II, Ribonuclease PH, and RNA Degradosome in *Escherichia coli*. **Jaime García Mena**. Genética y Biología Molecular. CINVESTAV Zacatenco
- B-36** Glucose-6-phosphate dehydrogenase (G6PD) deficient; a biochemical perspective. **Saúl Gómez-Manzo**. Laboratorio de Bioquímica Genética. Instituto Nacional de Pediatría
- B-37** New structural insights regarding the binding mode of the Kunitz-type protease inhibitors: canonical or non-canonical subclassification. **Yasel Guerra**. Instituto de Biotecnología, UNAM
- B-38** Spectroscopic studies show evidence that curcumin derivatives inhibit TGR of *Taenia crassiceps* cysticerci. **Alberto Guevara-Flores**. Departamento de Bioquímica, Facultad de Medicina, UNAM
- B-39** Function of the Cox1 carboxyl terminal-end in yeast phenotype and mitochondrial function. **Ana Paulina Gutiérrez-Alejandre**. Genética Molecular, Instituto de Fisiología Celular, UNAM
- B-40** Biochemical characterization of *Rhinella marina* skin secretions and identification of enzymatic activities. **Itzel Amairani Gutiérrez Reyna**. Centro de Investigación en Biotecnología, UAEM
- B-41** Biochemical characterization of HSL *BaEstB* esterase from *Bjerkandera adusta* and its natural substrates. **Daniel Hernández Fuentes**. Centro de Investigación en Biotecnología, UAEM
- B-42** Purification and characterization of novel metalloproteases from *Holothuria inornata* from Chamela Bay, Jalisco, Mexico. **Alan G. Hernández-Melgar**. Departamento de Química de Biomacromoléculas. Instituto de Química, UNAM
- B-43** Immunophenotype of senescent cells. **Elisa Hernández Mercado**. Laboratorio de Bioenergética y Envejecimiento Celular. Posgrado en Biología Experimental UAM-I
- B-44** Quantification of gibberellic acid 3 (GA3) in liquid and powder matrix fertilizers by high performance liquid chromatography (HPLC). **Gabriel Hernández Morales**. Tecnológico Nacional de México en Celaya

- B-45** Biochemical characterization of recombinant lactate dehydrogenase-1 from white shrimp *Litopenaeus vannamei*. **Magally L.E. Hernández Palomares**. Centro de Investigación en Alimentación y Desarrollo, A.C
- B-46** Human Papilloma Virus-18 uses a novel type of mRNA to drive translation of oncoprotein E6 during tumor development. **Greco Hernández**. Division of Basic Research, National Institute of Cancer
- B-47** Effect of male reproductive tract secreted proteins on human sperm function. **Gabriela Hernández-Silva**. Departamento de Biología de la Reproducción, Instituto Nacional de Ciencias Médicas y Nutrición. “Salvador Zubirán”
- B-48** Proline Content in Commercial Wines. **Jesús Abelardo Salazar Alanis**. Departamento de Química. Facultad de Ciencias Biológicas. Universidad Autónoma de Nuevo León
- B-49** Proteomics based on LC-MS/MS in tissues of patients chemoresistant to platinum and taxanes with ovarian epithelial cancer. **Gloria Angelina Herrera Quiterio**. Faculty of Chemical-Biological Sciences, Autonomous University of Guerrero
- B-50** Role of subcellular localization in the subfunctionalization of the paralogous proteins Leu4 and Leu9 in *Saccharomyces cerevisiae*. **Jaqueline Hersch González**. Instituto de Fisiología Celular, UNAM
- B-51** Evaluation of the effect of heat capacity on the catalysis of a dimeric enzyme. **Ekaterina Jalomo Khayrova**. Instituto de Biotecnología, UNAM
- B-52** Study of the transcriptional regulation of paralogous genes LEU4 and LEU9 in *Saccharomyces cerevisiae*. **Angélica Mariana Jara Servín**. Instituto de Fisiología Celular. UNAM
- B-53** NaTrxh, a secreted thioredoxin type h from *Nicotiana glauca* contains a rare signal peptide possibly recognized only by plant cells. **Diana Guadalupe Arzate Peña**. Departamento de Biología Comparada. Facultad de Ciencias, UNAM
- B-54** Effect of Iztli peptide 1 on CELL-CYCLE arrested mammalian cells. **Maria Teresa Lara Ortiz**. Departamento de Bioquímica y Biología Estructural. Instituto de Fisiología Celular, UNAM
- B-55** Effect of moderate exercise and metformin treatment on mitochondria isolated from old rats quadriceps. **Stefanie Paola López-Cervantes**. Departamento de Ciencias de la Salud. Universidad Autónoma Metropolitana, Unidad Iztapalapa
- B-56** Single residue change causes loss in phospholipase and hemolytic activity on *Vibrio parahaemolyticus* thermolabile hemolysin. **Alonso Alexis López-Zavala**. Laboratorio de Investigación en Alimentos. Universidad de Sonora
- B-57** Switch expression of MATs proteins in a sequential model of cirrhosis-hepatocellular carcinoma induced by DEN and the hepatoprotective effects of IFC305. **María Guadalupe Lozano-Rosas**. Instituto de Fisiología Celular, UNAM
- B-58** Contribution of the Mitochondrial Intrinsic Pathway to the Apoptosis Resistance exhibited by Fibroblasts from Human Idiopathic Pulmonary Fibrosis. **E. R. Luis-García**. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas

**BIOTECHNOLOGY II**

- BT-36** Microbial growth phases of *Bacillus thuringiensis* characterized by online permittivity and conductivity measurements. **Escalante-Sánchez Abdi.** Departamento de Biotecnología y Bioingeniería. CINVESTAV IPN
- BT-37** Structural features involved in the hemolytic activity of a pepper defensin. **Georgina Estrada Tapia.** Unidad de Bioquímica y Biología Molecular de Plantas. Centro de Investigación Científica de Yucatán
- BT-38** Restructuring of the rhizospheric microbiome of *Musa acuminata* (banana) cultivated in Southeastern Mexico, upon soil inoculation with microbial consortia. **Elisa Fernández-Castillo.** CIATEJ
- BT-39** Evaluation of toxic activity of reactivated *Bacillus thuringiensis var israelensis* from fermentation extracts, after more than three decades of storage and analysis of toxic persistence against *Aedes aegypti* larvae. **David Daniel Fernández Chapa.** UANL
- BT-40** Carotenoid production in cultures of *Phaffia rhodozyma* under magnesium limited conditions. **Iris Isabel Flores Manzanero.** CINVESTAV IPN Zacatenco
- BT-41** A novel alcoholic functional beverage made from *Agave salmiana* and probiotic mixed culture. **Alejandro García Cruz.** Departamento de Ingeniería en Biotecnología, Universidad Politécnica Metropolitana de Puebla
- BT-42** *Opuntia ficus-indica* nanofibers as drug release system. **Elsy J. García-Valderrama.** Centro de Innovación en Diseño y Tecnología
- BT-43** Actinomycetes from natural areas with promoting growth plant capacity. **Blanca Estela Gómez Luna.** University of Guanajuato
- BT-44** Relevance of Tal2a, a putative LysM effector from *Trichoderma atroviride*, on its activity as mycoparasite and plant endosymbiont. **Sandra M. Gómez-Méndez.** Departamento de Biología, Universidad de Guanajuato
- BT-45** Degradation in hypersaline conditions of aromatic polycyclic hydrocarbons and pharmaceutical compounds by the halophilic strains *Aspergillus sydowii*-like H1 and *Aspergillus destruens* EXF-10411. **Deborah González Abradelo.** UAEM
- BT-46** Design and production of CRISPR-dCas9 and dCas12a dimers for the formation of nanostructures with DNA. **Itzel G. González Carmona.** Instituto de Química, UNAM
- BT-47** Production in *E. coli* and IMAC purification of the C-terminal region of the *Schizosaccharomyces pombe* FXNA peptidase. **González Esparragoza Dalia.** Centro de Química. Instituto de Ciencias BUAP
- BT-48** Characterization of protease activities in mid-gut of *Chrysoperla carnea* larvae. **Claudia de la Paz González García.** Universidad de Guanajuato
- BT-49** Isolation of halotolerant bacteria, biosurfactant producer. **Jorge Gracida.** Facultad de Química. Universidad Autónoma de Querétaro
- BT-50** Manufacture of DNA microarray for identification of transgenic organisms in maize. **Simón Guzmán León.** Unidad de Microarreglos de DNA, Instituto de Fisiología Celular, UNAM

- BT-51** Caffeic Acid Production from Coumaric Acid in a Recombinant *Escherichia coli* Strain. **Georgina Hernández Chávez**. Instituto de Biotecnología, UNAM
- BT-52** Cultivation of the cyanobacterium *Desertifilum* sp. for the production of biomass and C-Phycocyanin. **Ingrid Hernández Martínez**. Maestría en Ciencias Naturales e Ingeniería, Universidad Autónoma Metropolitana-Cuajimalpa
- BT-53** Evaluation of ptsG and galR deletions on glucose transport and catabolic repression in a lactogenic strain of *Escherichia coli*. **Tlakaheel Akolmiztli Hernández Ríos**. Instituto de Biotecnología, UNAM
- BT-54** Leucine aminopeptidase yspII from *Schizosaccharomyces pombe* involved in mitosis. Revertant of the mutant strain (4X $\Delta$ ape2). **Irma Herrera Camacho**. Centro de Química del Instituto de Ciencias, BUAP
- BT-55** Effect of nutritional and physicochemical factors on the dimorphic transition and production of  $\alpha$ -amylase in the yeast *Candida wangnamkhiaoensis*. **Raziel Arturo Jiménez Nava**. Escuela Nacional de Ciencias Biológicas. IPN
- BT-56** Synthesis of caffeic acid using variables of cytochrome BM3. **Jorge Luis Jiménez Niebla**. Instituto de Biotecnología, UNAM
- BT-57** Isolation of three new novel nor-triterpenes with anti-inflammatory activity from a population of the Mexican species *Galphimia glauca* Cav. grown on the state of Morelos. **Eleazar León-Álvarez**. Centro de Investigación en Biotecnología, UAEM
- BT-58** Callus induction and phytochemical profile of *Jatropha curcas* L. **Gerardo Leyva Padrón**. Centro de Desarrollo de Productos Bióticos. IPN
- BT-59** Physiological and molecular characterization of *Saccharomyces cerevisiae* strains for Tequila production. **Araceli López Andrade**. Universidad de Guanajuato
- BT-60** Modulation of the activity and expression of the peroxidase ZmPrx35 from insect-resistant maize endosperms (*Zea mays* L.; P84C2R) in response to mechanical and insect damage. **Laura Margarita López-Castillo**. Tecnológico de Monterrey
- BT-61** Generating a diagnostic method for differentiation of all four serotypes of dengue virus by PCR, using samples Tabasco State. **López Mondragón Daniela Alejandra**. Universidad Juárez Autónoma de Tabasco
- BT-62** Efficient pyruvate production from glucose and xylose using metabolically engineered *Escherichia coli* and limited oxygen transfer conditions. **Mauricio López Portillo Masson**. Instituto de Biotecnología, UNAM
- BT-63** Analysis of molecular dynamics in modified sugar transporters for bioethanol production. **Aline López-Vargas**. Autonomous University of Querétaro
- BT-64** Design and construct of two modules to detect *Listeria monocytogenes* using *Escherichia coli* and *Bacillus subtilis* as chassis. **Celia Monserrat Luna-Castro**. Universidad de Guanajuato, Campus Irapuato-Salamanca
- BT-65** Micropropagation from nodal segments of *Vaccinium corymbosum*. **María del Mar Machado Achirica**. Unidad Profesional Interdisciplinaria de Ingeniería Campus Guanajuato. IPN
- BT-66** Induction of hairy roots by three strains of *Agrobacterium rhizogenes* on *Agastache Mexicana*. **Angélica Lucía Martínez Aguilar**. Centro de Investigación en Biotecnología. Laboratorio de Botánica Estructural. UAEM

- BT-67** Removal of chromium VI by fungal isolated associated to lichens. **Fernando Martínez-Armenta**. Instituto Tecnológico Superior de Irapuato
- BT-68** UTMBioLAB: Molecular-Biotechnological Diagnostic. **Eber Diego Martínez Correa**. Universidad Tecnológica de Morelia
- BT-69** Biochemical study of the production of melanin in the mutant  $\Delta$ PMA1 of *Ustilago maydis* and its potential use in bioremediation. **Martínez López Cinthya**. Departamento de Microbiología, Escuela Nacional de Ciencias Biológicas, IPN
- BT-70** Heterologous production of caffeic acid in recombinant *Escherichia coli*. **Luz María Martínez Mejía**. Instituto de Biotecnología, UNAM

### REACTIVE OXYGEN SPECIES I

- ROS-1** Evaluation of the energetic metabolism and redox state of senescent breast epithelial MCF-10 cell line. **Angélica Alejandra Aquino-Cruz**. UAM Iztapalapa
- ROS-2** Changes in expression in the EhTRF-like proteins of *Entamoeba histolytica* during oxidative stress. **Karen Anell Becerril Puente**. Posgrado en Ciencias Genómicas, Universidad Autónoma de la Ciudad de México
- ROS-3** Antioxidant enzymatic system of the antarctic yeast *Rhodotorula mucilaginosa* M94C9; a biochemical and bioinformatic – comparative study. **Jorge Brito Sánchez**. Facultad de Ciencias, UNAM
- ROS-4** Combination of single doses of Cytarabine and Ferric Carboxymaltose (Fe+3) increases oxidative damage and alter redox balance in rat brain. **David Calderón Guzmán**. Medicine Experimental Division. National Institute of Pediatrics
- ROS-5** Expression of peroxyredoxin 3 in squamous intraepithelial lesions and cervical cancer. **Ruth Yareli Calvario Pino**. Facultad de Ciencias Químico Biológicas. Universidad Autónoma de Guerrero
- ROS-6** *Debaryomyces hansenii* catalase T gene overexpression on an acatalasemic strain of *Saccharomyces cerevisiae*. **Román Alfonso Castillo Díaz**. Laboratorio de Biología Molecular y Genómica, Facultad de Ciencias, UNAM
- ROS-7** Impact of Resveratrol on the temporal lobe of Wistar rats treated during the aging process. **Iván Cesar Arteaga**. Departamento Bioquímica-Alimentos, Facultad de Ciencias Químicas. BUAP
- ROS-8** Variants in SOD2, CAT, GPX1 and GPX7 genes as markers of oxidative stress associated with obesity in children from Mexico City. **Cota-Magaña Ana Isabel**. Doctorado en Ciencias Biológicas y de la Salud, UAM Iztapalapa
- ROS-9** Determination of antioxidant capacity in the organic waste of *Tenebrio molitor* larvae. **Dinora Guadalupe Díaz-Parra**. Chemistry Department. CUCEI, Universidad de Guadalajara
- ROS-10** Protective effect of achiote extracts against different types of stress in the model of *C. elegans*. **Darío Gómez-Linton**. Ciencias de la Salud. Universidad Autónoma Metropolitana, Unidad Iztapalapa
- ROS-11** Effect of hypoxia, reoxygenation, temperature and silencing on the expression of white shrimp *Litopenaeus vannamei* manganese superoxide dismutases. **Carlos Ricardo González-Ruiz**. Centro de Investigación en Alimentación y Desarrollo

- ROS-12** Analysis of the activity of phenolic bean compounds in oxidative stress tolerance in *Caenorhabditis elegans*. **Alejandra Yitzel Guzmán Hernández**. Instituto de Investigaciones Químico Biológicas, Universidad Michoacana.
- ROS-13** Resveratrol regulates oxidative markers and antioxidant enzymes during the aging process. **Daniel Juárez Serrano**. Departamento Bioquímica-Alimentos, Facultad de Ciencias Químicas. BUAP
- ROS-14** Stress-induced premature senescence (SIPS) of Primary Prostate Epithelial Cells (HPEC) and Evaluation of Senescence-Associated Secretory Phenotype (SASP). **Verónica Salas-Venegas**. Posgrado en Biología Experimental, UAM Iztapalapa

## GENETICS, EPIGENETICS AND GENETIC REGULATION II

- GR-30** Cysteine-rich receptor-like kinase gene family identification in *Phaseolus* genome and functional characterization of *PvCRK26* and *PvCRK46* during rhizobial symbiosis. **Gabriel-Xicoténcatl García**. Ciencias Agrogenómicas, ENES Unidad León UNAM
- GR-31** Sodium butyrate effect on growth and dimorphic transition of *Yarrowia lipolytica*. **Juan Manuel González Prieto**. Biotecnología Vegetal. Centro de Biotecnología Genómica. IPN
- GR-32** Analysis of SNP's in the *Pun1* Gene (*Capsaicin synthase*) in some cultivars of *Capsicum annuum* of Mexico. **Alberto González Zamora**. Laboratorio de Biología Evolutiva. Facultad de Ciencias Biológicas. Universidad Juárez del Estado de Durango
- GR-33** Functional diversification of paralogous  $\alpha$ -Isopropylmalate synthases from the ancestral type yeast *Lachancea kluyveri*. **Estefany Granados Avalos**. Instituto de Fisiología Celular, UNAM
- GR-34** Genetic evidence for homodimerization of the proteins encoded by essential genes RHE\_PE00001 and RHE\_PE00024 in *Rhizobium etli* CFN42. **Carmen Guadarrama**. Programa de Ingeniería Genómica. Centro de Ciencias Genómicas, UNAM
- GR-35** *BDNF* SNP's are Associated with Body Composition and Bone Mineral Density in Postmenopausal Women. **Guerrero-Contreras Israel**. Facultad de Salud Pública y Nutrición. Universidad Autónoma de Nuevo León
- GR-36** *CgABF1* is an important regulator of adherence, chronological life span and oxidative estress response in *Candida glabrata*. **Ma. Guadalupe Gutiérrez-Escobedo**. Instituto Potosino de Investigación Científica y Tecnológica, AC
- GR-37** ¿Is there a relationship between genetic variability and viability loss of the *Escontria chiotilla* and *Stenocereus pruinosus* (Cactaceae) seeds? **David Alejandro Guzmán-Hernández**. Universidad Autónoma Metropolitana Iztapalapa
- GR-38** Effect of bisphenol A in steroid hormone receptors methylation patterns. **Luis Ricardo Hernández Barrientos**. Faculty of Chemistry, UNAM
- GR-39** AMPK modulates the genetic and metabolic effects of biotin deficiency. **Alain Hernández-Vázquez**. Unidad de Genética de la Nutrición, Instituto de Investigaciones Biomédicas, UNAM. Instituto Nacional de Pediatría

- GR-40** Search of the components of 5' to 3' and 3' to 5' pathways of mRNA decay in *Ustilago maydis*. **José Juan Jacinto Vázquez**. Posgrado en Microbiología, Instituto de Ciencias, BUAP
- GR-41** A member of ANR family modulates the expression of genes regulated by PerA in enteropathogenic *Escherichia coli*. **Juan Bernardo Jaramillo-Rodríguez**. Licenciatura en Biomedicina-BUAP
- GR-42** Interaction of the BER pathway with Transcriptional Factors Mfd and GreA and its consequences on *Bacillus subtilis* Adaptive Mutagenesis. **Hilda Cecilia Leyva-Sánchez**. Departamento de Biología, Universidad de Guanajuato
- GR-43** UVB and UVC inhibits cellular processes related to carcinogenesis in cervical cancer cell lines. **Jesús Adrián López**. Unidad Académica de Ciencias Biológicas, Universidad Autónoma de Zacatecas
- GR-44** Effect of folic acid on the regeneration of *Lumbriculus variegatus*. **López Martínez Juana María**. Facultad de Ciencias Naturales, Universidad Autónoma de Querétaro
- GR-45** Characterization of *Sporothrix schenckii* strains silenced in the gene encoding for Gp70. **López Ramírez, L.A.** División de Ciencias Naturales y Exactas. Universidad de Guanajuato
- GR-46** Reconstruction of pantothenate synthesis pathway in rhizobia: where does  $\beta$ -alanine come from? **Mariana López Sámano**. Centro de Ciencias Genómicas, UNAM
- GR-47** Mutations in the RB1 gene of Mexican childrens with retinoblastoma. **Antonio Loreto Velázquez**. Instituto de Física, Universidad Autónoma de San Luis Potosí
- GR-48** Papilloma virus and its potential role in retinoblastoma tumors in Mexican population. **Jesús Adrián Lozano Sánchez**. Laboratorio de interacciones moleculares y cáncer. Instituto de Física, UASLP
- GR-49** Genetic interactions among members of the RNA-directed DNA methylation pathway during reproductive development in Arabidopsis. **Judith Lua-Aldama**. Grupo de Desarrollo Reproductivo y Apomixis. LANGEBIO. CINVESTAV
- GR-50** Hypermethylation of *PPP2R2B* represents a novel mechanism by which chronic inflammation perpetuates itself. **Iris K. Madera-Salcedo**. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán
- GR-51** siRNA molecules derived from the dsRNAs synthesized by sense and antisense transcription generate gene silencing in *Giardia lamblia*. **Jaime Marcial-Quino**. Laboratorio de Bioquímica Genética. Instituto Nacional de Pediatría
- GR-52** Transcriptional divergence in homeologous genes *ALT1* and *ALT2* in *Saccharomyces cerevisiae*. **Dariel Márquez**. Department of Biochemistry and Structural Biology, Instituto de Fisiología Celular, UNAM
- GR-53** Two essential genes on the secondary chromosome p42e of *Rhizobium etli* CFN42 participate in cell division. **Sofía Martínez-Absalón**. Programa de Ingeniería Genómica, Centro de Ciencias Genómicas UNAM
- GR-54** Effect of ferulic acid on the expression of structural and regulatory genes for the biosynthesis of mycotoxin fumonisin B1 in *Fusarium verticillioides*. **Francisco Javier Martínez Fraca**. Facultad de Química, UNAM

- GR-55** A Phasin protein involved in bioplastic metabolism in *Azospirillum brasilense* Sp7. **María de los Ángeles Martínez Martínez**. Instituto de Ciencias. BUAP
- GR-56** The c-di-GMP protein MucR is necessary for cyst formation but not for alginate synthesis in *Azotobacter vinelandii*. **Iliana Chantal Martínez Ortíz**. Centro de Ciencias Genómicas, UNAM
- GR-57** Expression of the small RNAs CrcZ and CrcY regulate Carbon Catabolite Repression in the Nitrogen Fixing Bacterium *Azotobacter vinelandii*. **Marcela Martínez Valenzuela**. Instituto de Biotecnología, UNAM
- GR-58** Role of ExoA and PolA in *Bacillus subtilis* YwqL-dependent DNA deamination-induced repair. **Jimena Meneses Plascencia**. Departamento de Biología, Universidad de Guanajuato

## MEDICINE HEALTH & NUTRITION II

- MH-29** Differences on vascular reactivity and RNAm expression of Renin-Angiotensin and Kinin-Kallikrein systems components on acute and chronic myocardial infarction in male and female Wistar rats. **Jazmín Flores Monroy**. FES Cuautitlan, UNAM
- MH-30** Association of the polymorphism rs9939609 in the FTO gene with type 2 diabetes in the state of Guerrero. **Daicy Grisel Francisco Aguilar**. Faculty of Biological Chemistry Sciences. Autonomous University of Guerrero
- MH-31** Evaluation of arginase activity in patients with Diabetes from the Yanga General Hospital in Córdoba, Veracruz, Mexico. **Moisés Franco Rodríguez**. División Académica de Ciencias Básicas. Universidad Juárez Autónoma de Tabasco
- MH-32** Metatranscriptional characterization of the intestinal microbiota in health and obese with metabolic complications children. **Luigi Gallardo-Becerra**. Instituto de Biotecnología, UNAM
- MH-33** Comparative effects of colombian agraz consumption on triglycerides and oxidation markers in men and women with metabolic syndrome. **Yeisson Galvis**, School of Microbiology. University of Antioquia
- MH-34** Proteomic analysis of the extracellular vesicles secreted by hepatoma cell lines: potential clinical- and pathophysiological-implications. **Rosendo García Carrillo**. Centro Universitario de Investigaciones Biomédicas, Universidad de Colima
- MH-35** Expression of steroid sulfatase in epithelial ovarian cancer. **Paulina García de Alba**. Departamento de Embriología. Facultad de Medicina, UNAM
- MH-36** Evaluation of the anticancer effects of quercetin and its fermentation products in human colon cells treated with bisphenol A. **Nataly García Gutiérrez**. Autonomous University of Queretaro
- MH-37** Delivery of Resveratrol to cardiac cells through polymeric nanovectors. **Paola García Medina**. Escuela de Medicina y Ciencias de la Salud, Tecnológico de Monterrey
- MH-38** Evaluation of the anti-migratory effect of a triple therapy in breast, colon and cervical cancer-derived cell lines. **Mical Garcia-Reyes**. FES-Iztacala, UBIMED, UNAM



- MH-39** Decellularized bovine bone chips as a potential biologic scaffold. **Alejandro García-Ruiz**. Departamento de Bioquímica, Facultad de Medicina. UANL
- MH-40** Differential expression of proteins in cancer cervical biopsies for the search for new biomarkers. **Olga Lilia Garibay Cerdaneres**. Faculty of Chemical-Biological Sciences. Autonomous University of Guerrero
- MH-41** Chromium Picolinate decreases cortisol levels in *Ovis aries*. **Andrea Gómez-Zúñiga**. Maestría en Biología de la Reproducción Animal. Universidad Autónoma Metropolitana
- MH-42** LPS induce phosphorylation of RACK1 in C6/36 HT cells from *Aedes albopictus*. **Hernández-Hernández FC**. Facultad de Enfermería No.2, UAGro
- MH-43** Effect of cocoa intake on the induction of *in vitro* insulin polymers in obese patients. **José Arnold González Garrido**. Universidad Juárez Autónoma de Tabasco, División Académica de Ciencias Básicas
- MH-44** Restart of the estrous cycle by the estrogenic activity of the mesquite pod extract in ovariectomized rats. **Leticia González-Nuñez**. Universidad Autónoma Metropolitana, Unidad Iztapalapa
- MH-45** Expression of LAMC1 and ITGβ1 in cervical-cancer-derived cell lines. **Diana Laura Gonzalez-Tolentino**. Facultad de Ciencias Químico Biólogo Parasitólogo, Universidad Autónoma de Guerrero
- MH-46** Respiratory Tract Microbiota in Patients with Acute Respiratory Infections. **Guerrero Corona Diego**, Instituto Nacional de Medicina Genómica
- MH-47** Effect of high fat diet and pirfenidone on gene expression involved in a mouse model of cardiomyopathy. **Jorge Gutiérrez-Cuevas**. Instituto de Biología Molecular en Medicina y Terapia Génica, CUCS, Universidad de Guadalajara
- MH-48** Pharmacological Evaluation of Aqueous Extracts Of Cancerina (*Semialarium mexicanum*) as a Antiteratogenic And Cytotoxic Therapy. **Mario Javier Gutiérrez Fernández**. Universidad Tecnológica de Morelia
- MH-49** Soluble Toll like receptor 2 is augmented in saliva of patients with squamous cell carcinoma. **Rebeca Guzmán Medrano**. Universidad Autónoma de Chihuahua
- MH-50** Beneficial effects of exercise and metformin on the body composition of aged female Wistar rats. **David Hernández Álvarez**. Departamento de Ciencias de la Salud, Universidad Autónoma Metropolitana Iztapalapa
- MH-51** Expression of BiP, IRE1, ATF6 and PERK (Unfolded Protein Response mediators) in mechanical and alkali corneal lesion in rat. **Erandeni Hernández Esparza**. Centro de Ciencias de la Salud, Universidad Autónoma de Aguascalientes
- MH-52** Chemoprotective effect of lactoferrin in Hepatocellular Carcinoma. **Hury Viridiana Hernández Galdámez**. Departamento de Biología Celular. CINVESTAV. IPN
- MH-53** Transcription level of socs4 and socs6 genes in peripheral blood mononuclear cells of patients with Multiple Sclerosis by real time RT-PCR. **Adriana Hernández Reyes**. Decanato de Cs. Biológicas, Universidad Popular Autónoma de Puebla
- MH-54** Effect of pyrophosphate thimine on the nerve conduction speed in patients with diabetic polyneuropathy. **Itzelly Ibarra-Valdovinos**. Facultad de Medicina, Departamento de Investigación Biomédica, Universidad Autónoma de Querétaro

- MH-55** Elevated arginase activity levels in patients with central obesity. **Diana Cristel Jeronimo Contreras**. The Faculty of Basic Sciences. Juarez Autonomous University of Tabasco
- MH-56** Effect of the acute consumption of polyphenol and a program of physical activity in the treatment of the osteoarthritis in older adults. **Everardo Antonio Jiménez Resardo**. Escuela Superior de Medicina. IPN

## MICROBIOLOGY & VIROLOGY II

- MV-25** Management of patients infected with HIV in the State of Tabasco. **Luis Manuel Contreras Cabrera**. Universidad Juárez Autónoma de Tabasco
- MV-26** Importance of host cholesterol in the DENV, ZIKV and YFV infection. **Carlos Daniel Cordero-Rivera**. Departamento de Infectómica y Patogénesis Molecular, CINVESTAV-IPN
- MV-27** Expression of miR-142-3p and infection by *Helicobacter pylori* in patients with chronic gastritis and gastric cancer. **Ana B. Cruz Hernández**. Facultad de Ciencias Químico Biológicas, Universidad Autónoma de Guerrero
- MV-28** Comparative analysis of biofilm production by *Sporothrix schenckii* conidia and yeast-like cells. **Marilyn Gwendolyne De los Santos-Rojas**. Departamento de Biología, División de Ciencias Naturales y Exactas, Universidad de Guanajuato
- MV-29** Vaccine efficacy of BCG-Phipps in bovine tuberculosis by monitoring response to ESAT-6 and CFP-10 antigens in IFN- $\gamma$  release assay. **Fernando Díaz Otero**. CENID-Microbiología Animal INIFAP
- MV-30** Evaluation of VP4 expression in MA-104 cell line infected with rotavirus. **Tania Guadalupe Heredia Torres**. Facultad de Ciencias Biológicas, UANL
- MV-31** Participation of the pvd gene cluster in the mechanism of Quorum sensing and virulence of *Pseudomonas aeruginosa* PAO1. **Sharel Pamela Díaz Pérez**. Instituto de Investigaciones Químico Biológicas, Universidad Michoacana.
- MV-32** Molecular characterization of the rOrf1 protein of enteropathogenic *Escherichia coli*. **Norma Espinosa Sánchez**. Instituto de Fisiología Celular, UNAM
- MV-33** Silencing SOCS1 and SOCS3 in T Helper cells resulted in augmented Interleukin 10 production during Dengue virus infection. **Lilian Flores-Mendoza**. CIBIOR-IMSS. Ciencias Químico Biológicas, Universidad de Sonora, Unidad Regional Sur
- MV-34** First report of the *Aedes aegypti* Flavivirus in field population of *Aedes aegypti* in Mexico, a mosquito-specific virus. **Suemy Flores-Ruiz**. Laboratorio de Arbovirología, Centro de Investigaciones Regionales “Dr. Hideyo Noguchi”
- MV-35** Antiviral effect of a Dializable Leukocytes Extract in MDCK cells infected with influenza AH1N1 pandemic 2009. **García Martínez Daniel**. ENMyH-IPN
- MV-36** Importance of co-infection of influenza virus-bactrias with host damage. **Alexis Eduardo García García**. Facultad de Medicina, UNAM
- MV-37** Similar mutations in LiaR are present in lipopeptide susceptible and resistant *Enterococcus faecium* isolates. **María Carlota García-Gutiérrez**. Facultad de Medicina, Universidad Autónoma de Querétaro

- MV-38** Biochemical and phylogenetic study of a flagellar lytic transglycosylase SltF from *Rhodobacter sphaeroides*. **Mariela García-Ramos**. Instituto de Fisiología Celular, Universidad Nacional Autónoma de México
- MV-39** Role of PqsE in the production of pyocyanin and elastase in *Pseudomonas aeruginosa* strain ATCC 9027, which belongs to the outlier PA7 clade. **Selene García-Reyes**. Instituto de investigaciones Biomédicas, UNAM
- MV-40** Identification and screening of *Trichoderma* strains natives from Querétaro with fungicide activity for biocontrol of phytopathogenic fungi. **Víctor Javier García Sánchez**. Facultad de Ciencias Naturales, Universidad Autónoma de Querétaro
- MV-41** Analysis of the co-participation between the Epstein Barr virus and the bacterium *Helicobacter pylori* in a gastric cancer model. **Ana Karen Gaytán-Jiménez**. Hospital Infantil de México Federico Gómez / UNAM
- MV-42** *Pasteurella multocida* can use human lactoferrin as iron source by binding it to the aldehyde-alcohol-dehydrogenase. **Omar Gómez-Arenas**. FES Iztacala, UNAM
- MV-43** Microbiological and biochemical study of the Killer toxin (K1) of *Saccharomyces cerevisiae* in acidic environments. **Jaqueline González-Barragán**. Basic and Applied Microbiology. Unit. Autonomus University of Querétaro
- MV-44** Functional diversity of ant escamolera gut microbiota unveils key adaptations for its survival in a semiarid ecosystem. **Jorge Gonzalez-Escobar**. Department of Molecular Biology, Instituto Potosino de Investigación Científica y Tecnológica A.C.
- MV-45** Norovirus and rotavirus gastroenteritis severity in children. **Guadalupe González-Ochoa**. Universidad de Sonora, División de Ciencias e Ingeniería, Departamento de Ciencias Químico Biológicas y Agropecuarias
- MV-46** Biosynthesis and functions of zwitterionic membrane lipids and their hydroxylated derivatives in *Burkholderia cenocepacia* J2315. **Napoleón González-Silva**. Centro Universitario de los Altos, Universidad de Guadalajara
- MV-47** Oxidative stress activates the persistence of *M. tuberculosis* in the human macrophage through WhiB3. **Silvia Guzmán-Beltrán**. Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas
- MV-48** Proteomic analysis of *Escherichia Coli* Detergent-Resistant Membranes (DRM): An insight of membrane raft content. **José Enrique Guzman-Flores**. Instituto de Fisiología Celular. UNAM
- MV-49** Analysis of biofilm growth condition by microscopy and production of indole-3-acetic acid production by *Azospirillum brasilense*. **Acatitla- Jácome Iris**. Centro de Investigaciones en Ciencias Microbiológicas, BUAP

## NEUROSCIENCES AND NEUROBIOLOGY I

- NN-1** Autophagy could cooperate with matrix metalloproteinases to the mouse neural tube closure. **Pilar Sarah Acevo-Rodríguez**. Departamento de Neurodesarrollo y Fisiología, División de Neurociencias, Instituto de Fisiología Celular, UNAM
- NN-2** Association of miR-21 and let-7 with migration and invasion of medulloblastoma cells. **Lourdes Álvarez-Arellano**. Laboratorio de Investigación en Neurociencias, Hospital Infantil de México Federico Gómez

- NN-3** Implementation of *Ex Vivo* electroretinogram (ERG) the technique in isolated mouse retinas. **Margarita Marlene Araujo Meza**. Instituto de Neurobiología, UNAM Campus Juriquilla
- NN-4** Molecular and electrophysiological characterization of glutamate-gated chloride channels subunits from **Procambarus clarkii** crayfish's eyestalk. **Juan Manuel Arias Montaña**. Facultad de Estudios Superiores Iztacala, UNAM
- NN-5** Expression and phosphorylation of PEBP1 in early focal brain ischemia on rat hippocampus. **Jorge Daniel Corzo Toledo**. Departamento Infectómica y Patogénesis Molecular, Cinvestav-IPN
- NN-6** Effect of polypyrrole/iodine on GAP-43, GFAP and AKT expression in a model of chronic spinal cord injury in rats. **Angélica B. Coyoy Salgado**. CONACyT- IMSS
- NN-7** Histological characterization involved in pathophysiology of the spinal cord injury in diabetic rats. **Adriana Domínguez-Vázquez**. Depto. de Ciencias Naturales e Ingeniería, UAM-Cuajimalpa
- NN-8** P2X3 receptors participate in neuronal hyperexcitability during acute colitis. **Ismael Eduardo Gallegos Vieyra**. Universidad Autónoma de Aguascalientes
- NN-9** Participation of GABA<sub>A</sub> receptors in the antidepressant-like effect of *Justicia spicigera* Schltdl in female rats in the metestrus-diestrus phases of the ovarian cycle in Wistar rats. **Rosa Isela García-Ríos**. Centro Universitario de los Lagos. Universidad de Guadalajara
- NN-10** Role of Wnt signaling pathway on hippocampal reorganization after a synaptic loss. **Lizbeth E. García-Velázquez**. Department of Genomic Medicine and Environmental Toxicology, IIB, UNAM
- NN-11** Pharmacological characterization of the heterologous expression of P2X1 and P2X1del human receptors. **Karen Sarahí Gómez Coronado**. Instituto Potosino de Investigación Científica y Tecnológica, A. C.
- NN-12** Loss of the autophagic flux in the brain of old rats favors the establishment of cellular senescence. **Elisa Gorostieta-Salas**. Institute of Cellular Physiology, National Autonomous University of Mexico
- NN-13** Differences in the plasma concentration of lipids and  $\beta$ -amyloid and tau protein between Mexican patients with Alzheimer's disease and healthy subjects. **Christian Guerra-Araiza**. Unidad de investigación Médica en Farmacología, CMN S XXI, IMSS
- NN-14** Integrating genomic and metabolomic data to elucidate the biochemical mechanisms related to schizophrenia. **Nora Gutiérrez-Nájera**. Instituto Nacional de Medicina Genómica
- NN-15** Study of neural differentiation in vitro using immortalized multipotent otic progenitor cells. **Edson Daniel Hernández Velázquez**. University of Guanajuato/Optics Research Center "CIO"
- NN-16** Evaluation of the anti-inflammatory and antioxidant activities of scammonin I isolated from *Ipomoea tyrianthina* root. **Johanna Stefan Jaimes Acuña**. Centro de Investigación en Biotecnología (CEIB), UAEM
- NN-17** Regulation of TRPV1 channel by endocannabinoids. **Rebeca Juárez-Contreras**. Departamento de Neurociencia Cognitiva, Instituto de Fisiología Celular, UNAM

- NN-18** Characterization of corticospinal neurons from the primary motor cortex in Alzheimer's model. **Martín Macías**. Institute of Neurobiology, National Autonomous University of México
- NN-19** Prolactin protection against oxidative and hypoxic stress in hippocampal neurons. **Fernando Macías Prado**. Department of Celular and Molecular Neurobiology. Neurobiology Institute, UNAM
- NN-20** *Malva parviflora* extract regulates the phagocytic capacity of microglial cells via a PPAR $\gamma$ -mediated mechanism in an Alzheimer's disease model. **Elisa Medrano-Jiménez**. Instituto de Biotecnología, UNAM
- NN-21** Possible synaptic communication between neurons of Parafascicular and Central lateral intralaminar thalamic nuclei. **Beatriz Sarahí Méndez Rodríguez**. División de Neurociencias, Instituto de Fisiología Celular, UNAM

## TOXICOLOGY I

- T-1** Long term alterations produced on mice prenatally exposed to electromagnetic fields are prevented by trans-resveratrol. **Faviola Alcántara-González**. Department of Physiology, Lab. Development Pharmacology, Escuela Nacional de Ciencias Biológicas, IPN
- T-2** Effect of CdCl<sub>2</sub> on the expression of DNMTs in the HepG2 cell line at subtoxic concentrations. **Alcocer Lorenzo SI**. Laboratory of Cytopathology and Histochemistry, Autonomous University of Guerrero
- T-3** New interactions of PPAR gamma with glitazones, 15d-PGJ2 and TZD ring obtained from MD simulations. **Samuel Álvarez-Almazán**. Escuela Superior de Medicina. IPN
- T-4** Antivenom Archeology. **Irving Archundia**. Instituto de Biotecnología, UNAM
- T-5** Search and evaluation of new molecular structures with potential giardicidal activity. **Juan Carlos Auriostigue Bautista**. Laboratorio de Bioquímica-Genética, Instituto Nacional de Pediatría
- T-6** Cloning, expression and purification of a metalloprotease from the venom of a pit viper endemic of Argentina. **Damaris Iyary Bolaños Guadarrama**. Instituto de Biotecnología, UNAM
- T-7** Hydroxyurea interferes with the DNA damage response in Fanconi anemia cells. **José Benjamín Bustamante Gómez**. Laboratorio de Citogenética, INP
- T-8** Characterization of proteins with toxic activity from venoms of *Oculicosa supermirabilis*, *Heriaeus melloteei* and *Dolomedes gertschi*. **Samuel Cardoso Arenas**. Instituto de Biotecnología, UNAM
- T-9** Overexpression of the toxin MCTx-1 from the fire coral *Millepora dichotoma*. **Miguel Cuevas Cruz**. Instituto de Química, UNAM
- T-10** Effect of phthalates (DBP and BBP) on *in vitro* expansion of human hematopoietic cells. **Víctor Balderas Hernández**. Instituto Potosino de Investigación Científica y Tecnológica, A.C

- T-11** Metformin, Sodium Oxamate and Doxorubicin in combination induce intrinsic apoptosis in human cervical cancer cells. **Izmary Delgado-Waldo**. Instituto Nacional de Cancerología.
- T-12** Effects of atrazine on the human trophoblast. **Domínguez López Pablo E.** UIMMR Hospital de Ginecología y Obstetricia No. 4 “Dr. Luis Castelazo Ayala” IMSS
- T-13** Effects of extract of *Lepidium virginicum* on DNBS-induced colitis in rats. **María Fernanda Durán Vázquez**. Centro de Ciencias Básica, Departamento de Fisiología y Farmacología Universidad Autónoma de Aguascalientes
- T-14** Determinación de la actividad de una fracción menor a 1 kDa del veneno de *Palythoa caribaeorum* (Duchassaing & Michelotti, 1860) en el canal iónico Kv10.1. **Noel Fabian-Hernández**. Instituto de Química, UNAM
- T-15** Indomethacin: As posible selective inhibitor of phospholipase A2. **Leticia Guadalupe Frago Morales**. Instituto Politécnico Nacional.
- T-16** Functional expression of non-CB1 and non-CB2 cannabinoid receptor in leukemia cell lines. **Pamela Gaitán González**. Facultad de Ciencias Químicas, Universidad de Colima
- T-17** Extracts of *Capsicum annum* L modulate the metabolic activity of MCF-7 and MCF-12 cell lines. **Roberto Jorge García Mendoza**. Facultad de Ciencias Naturales, Universidad Autónoma de Querétaro.
- T-18** Prevalence of polymorphisms in the human UDP-Glucuronosyl transferase UGT1A6 552A>C (Arg184Ser) in mexican mestizo population of the state of Puebla. **Wendy Argelia García Suastegui**. Departamento de Biología y Toxicología de la Reproducción, Instituto de Ciencias, Benemérita Universidad Autónoma de Puebla
- T-19** Acute intoxication with sodium nitrate produces hematological and biochemical alterations and expression of hypoxia response genes. **Rebeca Pérez Morales**. Facultad de Ciencias Químicas. Universidad Juárez del Estado de Durango

**SYSTEMS BIOLOGY & BIOINFORMATICS II**

- SB-18** Identification of a group of microRNA's involved in the progression of breast cancer. **A.D.- Martínez Gutiérrez.** Instituto Nacional de Cancerología
- SB-19** Comparative genomics analysis of seven Mexican strains of *Anaplasma marginale*, the first *Anaplasma* genomes reported in Mexico. **Fernando Martínez Ocampo.** Centro Nacional de Investigación Disciplinaria en Parasitología Veterinaria. INIFAP
- SB-20** MicroRNA regulation of homoeolog genes in polyploid hybrid species. **Javier Israel Montalvo-Arredondo.** Unidad de Genómica Avanzada. LANGEBIO. CINVESTAV
- SB-21** Promiscuity of Histone acetyltransferases in *Ustilago maydis*. **Jazmin Eliana Murcia Garzón.** Escuela Nacional de Ciencias Biológicas, IPN
- SB-22** Secret-AAR: A Web Server to Assess the Antigenic Density of Proteins and for the Analysis of *M. tuberculosis* and *T. solium* Secretomes. **Adrián Ochoa-Leyva.** Departamento de Microbiología Molecular, Instituto de Biotecnología, UNAM
- SB-23** Identification of the immunodominant peptides of the PE\_PGRS33 protein of *Mycobacterium tuberculosis*. **David Ortega-Tirado.** Ciencias Químico Biológicas, Universidad de Sonora
- SB-24** Functional Genomics of Germinating Sclerotia of *Sclerotium cepivorum* Berk. **John Douglas Palleti.** Departamento de Biología. Universidad de Guanajuato
- SB-25** Transcriptomic analysis during the interaction of *Clavibacter michiganensis* subsp. *michiganensis* with two tomato species. **Leonardo Isaac Pereyra-Bistraín.** División de Biología Molecular, IPICYT
- SB-26** Halophile adaptations and stress in the lignocellulolytic fungus *Aspergillus sydowii*. **Yordanis Pérez-Llano.** Centro de Investigación en Biotecnología – UAEM
- SB-27** Identification of co-expressed long non-coding RNA structural domains in similar human tissues. **Luis Jordan Perez-Medina.** Unidad de Genómica Avanzada. LANGEBIO. CINVESTAV
- SB-28** Extremophile fungi: an alternative for the bioremediation of wastewater from municipal slaughterhouses in Morelos. **Verónica Ramírez Lona.** UAEM
- SB-29** Aldehyde dehydrogenase diversity in bacteria of *Pseudomonas* genus. **Héctor Riveros-Rosas.** Departamento de Bioquímica, Facultad de Medicina. UNAM
- SB-30** Novel lncRNAs are induced as part of the neighbor proximity response in *A. thaliana*. **Irving J. García López.** Unidad de Genómica Avanzada. LANGEBIO. CINVESTAV
- SB-31** Molecular and structural modeling of HPV-16 E6 oncoprotein and variants in the interaction with P53 as target protein. **Hugo Alberto Rodríguez Ruiz.** Faculty of Chemical-Biological Sciences. Autonomous University of Guerrero
- SB-32** Genomic analyses on phytopathogenic nematodes. **Luis Ángel Xoca-Orozco.** Laboratorio en Ciencias Agrogenómicas. ENES Unidad León. UNAM
- SB-33** Diversity of metabolic profiles in BP8, an enriched microbial community capable of growing in a polyether polyurethane-acrylic varnish, unveiled by metagenomic analysis. **Ayixón Sánchez Reyes.** Departamento de Bioquímica. Facultad de Química, UNAM

- SB-34** Prediction of the 3D structure of *Aedes aegypti* acetylcholinesterase. **Erika Amparo Torres Reyes**. Grupo de Investigaciones Ambientales para el Desarrollo Sostenible. Universidad Santo Tomás

### BASIC BIOCHEMISTRY III

- B-59** CETPI Derived Peptide Improves Acute Phase Response in a Septic Shock *in vivo* Model. **Ismael Luna Reyes**. Instituto de Fisiología Celular, UNAM
- B-60** Search of small organic molecules that modulate the function of the GTPase EFL1. **Miryam Samantha Maldonado López**. Instituto de Química, UNAM
- B-61** Application of a biosensor and computational tools for studies of molecular interaction of some drugs related to calmodulin. **Deyamira Matuz-Mares**. Department of Biochemistry, Faculty of Medicine, UNAM
- B-62** *SLC16A11*: A transporter associated with the risk of Type 2 Diabetes in Mexicans. **Andrea Celeste Medina García**. Unidad de Biología Molecular y Medicina Genómica del IIB-UNAM/INCMNSZ
- B-63** Thermodynamic and kinetic characterization of the unfolding of the B domain of the Lysine-arginine-ornithine binding protein (LAO). Comparison with the behavior of the A domain and the wild type protein. **Eva Isela Mejía Juárez**. Facultad de Medicina, UNAM
- B-64** Buthionine sulfoximine is a multi-target inhibitor of trypanothione synthesis in *Trypanosoma cruzi*. **Marlen Mejía Tlachi**. Departamento de Bioquímica, Instituto Nacional de Cardiología Ignacio Chávez
- B-65** Structure-based identification of a potential non-catalytic binding site for rational drug design in the fructose-1,6-biphosphate aldolase from *Giardia lamblia*. **Sara Teresa Méndez**. Laboratorio de Bioquímica-Genética. Instituto Nacional de Pediatría
- B-66** Study of the putative nuclear localization signals (NLS) of the cationic channel TRPV4. **Susana Méndez-Gómez**. Departamento de Fisiología, Biofísica y Neurociencias. CINVESTAV-Zacatenco
- B-67** Identification of microRNAs related to obesity in Mexican children. **Carolina Miranda-Brito**. Unidad de Investigación Médica en Bioquímica, CMN SXXI
- B-68** Silencing of HIF-1 decrease the viral load and restore the antioxidant response in WSSV-infected white shrimp. **Melissa María Miranda-Cruz**. Universidad de Sonora,
- B-69** Antifungal and antioxidant activity of hydrolysates from melón seed storage proteins (*Cucumis melo* L.). **Francisco Xavier Mojica Rodríguez**. Tecnológico Nacional de México. Instituto Tecnológico de Roque
- B-70** Transcriptome Sequencing by RNAseq and Differential Expression analysis to identify genes involved in Fatty Acids and Alkamides in the Mexican multifunctional plant *Heliopsis longipes*. **Jorge Molina-Torres**. CINVESTAV. Irapuato
- B-71** Phenolic compounds accumulation during postharvest life in the peel of six mango cultivars. **Juan Luis Monribot-Villanueva**. Red de Estudios Moleculares Avanzados. Instituto de Ecología A. C



- B-72** Molecular cloning, heterologous expression and structural modeling of Glucose-6-phosphate dehydrogenase from the protozoan *Giardia lamblia*. **Laura Eloísa Morales-Luna**. Laboratorio de Bioquímica Genética. Instituto Nacional de Pediatría
- B-73** Identification of chemical compounds that bind to human Gpn1 GTPase in computational molecular docking experiments. **Julio A. Muñiz Luna**. Instituto de Física, UASLP
- B-74** Common misconceptions in the usage of some evolutionary concepts in protein biochemistry. **Ricardo Muñiz Trejo**. Laboratorio de Fisicoquímica e Ingeniería de Proteínas, Departamento de Bioquímica, Facultad de Medicina, UNAM
- B-75** Analysis of the impact of potassium levels on porcine kidney BADH coenzyme binding site. **César Muñoz-Bacasehua**. Centro de Investigación en Alimentación y Desarrollo AC
- B-76** Function of the C-terminal domain of large-subunit catalases. **Teresa Nava Ramírez**. Biología Celular y del Desarrollo, Instituto de Fisiología Celular, UNAM
- B-77** *Escherichia coli* regulates the expression of miR-146 and -451 in chorioamniotic membranes in an infection model. **Mercedes Olvera-Valencia**. Inmunobioquímica. Instituto Nacional de Perinatología Isidro Espinosa de los Reyes
- B-78** Hypoxia inducible factor -1 regulates key glycolytic genes in WSSV-infected white shrimp. **Diana Lourdes Padilla-Bórquez**. Ciencias Químico-Biológicas y Agropecuarias. Universidad de Sonora
- B-79** Sphingolipid biosynthesis and function in bacteria. **Jonathan Padilla-Gómez**. Centro de Ciencias Genómicas, UNAM
- B-80** Structural comparison of human and murine G0S2 proteins. **Edgar Daniel Páez-Pérez**. Laboratorio de Biología Estructural, Instituto Potosino de Investigación Científica y Tecnológica
- B-81** Progesterone modulates the secretion of heat shock protein (Hsp)-60 in choriodecidual tissue after stimulation with *Escherichia coli* in a model of infection. **Janelly Estefanía Palacios Luna**. –Department of Inmunobioquímica Instituto Nacional de Perinatología
- B-82** Mitochondrial function and dynamics in MH-S alveolar macrophages treated with P27 y PE\_PGRS33 recombinant proteins of *Mycobacterium tuberculosis*. **Iris Selene Paredes González**. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán
- B-83** Exploring chemical space to find potential inhibitors of protein tyrosine phosphatase 1B. **Luis Enrique Pérez del Castillo**. Facultad de Medicina y Nutrición. Universidad Juárez del Estado de Durango
- B-84** Biochemical Characterization of Two Single Mutant (A+ and Nefza) that Give Rise to a polymorphic Glucose-6-phosphate dehydrogenase A- Double Mutant. **Edson Jiovany Ramírez Nava**. Laboratorio de Bioquímica Genética. Instituto Nacional de Pediatría
- B-85** Functional Studies of SRD5A2 Gene Mutations, Identified in Individuals with Steroid 5 $\alpha$ -Reductase Type-2 Deficiency/46,XY Disorder of Sexual Development. **Luis Ramos Tavera**. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

- B-86** Role of the aryl hydrocarbon receptor (AhR) on the oncoprotein E7-HPV16 degradation mechanism by the proteasoma 26S pathway. **Octavio Daniel Reyes Hernández.** Departamento de Bioquímica. Escuela Nacional de Ciencias Biológicas, IPN
- B-87** Plasma homocysteine levels in BALB / c mice with L5178Y lymphoma. **Fabiola Rodríguez Arévalo.** Centro Universitario de Ciencias Exactas e Ingenierías, Universidad de Guadalajara

### BIOTECHNOLOGY III

- BT-71** Expression and purification of recombinant glucose oxidase in *Pichia pastoris* and evaluation of cytotoxic and anticancer activity in vitro. **Evelyn Martínez Mora.** Facultad de Ciencias Químicas. Universidad Autónoma de Nuevo León
- BT-72** Effect of the SNF1 deletion in the glycolytic pathway of *Saccharomyces cerevisiae* grown at 1% glucose. **Cecilia Martínez-Ortiz.** Instituto Tecnológico Superior de Ciudad Hidalgo
- BT-73** Isolation and *in vitro* evaluation of peptides for their potential use as immunogens against *Anaplasma marginale*. **Julián Martínez Salgado.** Maestría en Biotecnología. CEIB - UAEM
- BT-74** Degradation of diesel and waste oil by *Pseudomonas spp.* isolated from contaminated soil. **José Antonio Martínez Villalba.** Departamento de Ingeniería Ambiental. Universidad Iberoamericana Torreón
- BT-75** Study on the saccharification of the lignocellulosic residue from the processing of jackfruit (*artocarpus heterophyllus*). **Medina-Morales José Uriel.** Programa de Maestría en Ciencias Biológico Agropecuarias. Universidad Autónoma de Nayarit
- BT-76** Evaluation of the phenotypic and molecular response of the interaction *Capsicum annum* L- peroxyacetic acid – geminiviruses. **Mejía-Teniente Laura.** CA. de Biotecnología, Sustentabilidad e Ingeniería. Universidad de Guanajuato
- BT-77** Stimulation of TOR signaling pathway by the rhizobacteria *Azospirillum brasilense* in Arabidopsis. **Manuel Méndez Gómez.** Instituto de Investigaciones Químico Biológicas. UMSNH
- BT-78** PvKNOLLE: a molecular marker for the *in vivo* visualization of the cytokinesis in *Phaseolus vulgaris* roots. **Elizabeth Monroy Morales.** Departamento de Biología Molecular de Plantas, Instituto de Biotecnología, UNAM
- BT-79** Analysis of diclofenac biodegradation in a continuous bioreactor by free cells of ascomycetes fungus. **Dario Rafael Olicón-Hernández.** Institute for Water Research, University of Granada, Spain
- BT-80** Phenylpropanoids associated with the induction of embryogenic response in cultures of avocado (*Persea americana* Mill). **Carol A. Olivares-Garcia.** Unidad de Investigación y Desarrollo de Alimentos. Instituto de Ecología A.C
- BT-81** Understanding the thermal inactivation kinetics of the NADH Oxidase from *Giardia lamblia*. **Jesús Oria Hernández.** Laboratorio de Bioquímica-Genética. Instituto Nacional de Pediatría

- BT-82** Characterization of a 3d Construction with mobilized sheep bone marrow cells differentiated to bone and cartilage. **Carmina Ortega Sanchez**. Instituto Nacional de Rehabilitación “Luis Guillermo Ibarra Ibarra
- BT-83** *Azotobacter vinelandii* mutant in *relA/spoT* homologous promotes early degradation of PHB. **Cristian Camilo Ortiz Vasco**. Instituto de Biotecnología-UNAM
- BT-84** Untargeted and targeted metabolomics analysis reveals a possible role of flavin monooxygenase YUCCA4 in the production of glucosinolates and plant development in Arabidopsis. **Randy Ortiz-Castro**. Instituto de Ecología, A.C
- BT-85** Sea cucumbers as a potential marine collagen source: a high performance method. **Jorge A. Osorio-Kuan**. Departamento de Química de Biomacromoléculas, Instituto de Química, UNAM
- BT-86** The use of a radio-sterilized fascia lata as a scaffold of the mesenchymal stem cells derived from the adult Hoffa’s fat package. **Ma. Dolores Ozuna Arroyo**. Instituto Nacional de Rehabilitación
- BT-87** Functional characterization of two patatin-related phospholipases A (pPLA) of *Phaseolus vulgaris* during nodulation. **Ronal Pacheco**. Departamento de Biología Molecular de Plantas, Instituto de Biotecnología. UNAM
- BT-88** Biochemical Characterization of Wild Yeasts Producing Ethanol. **Román Bruno Paz García**. Facultad de Ciencias Biológicas, Benemérita Universidad Autónoma de Puebla
- BT-89** *In vitro* production of Huperzine A by cell suspension cultures of the plant species *Huperzia orizabae*. **Rocio del Carmen Pérez Aguilar**. Centro de Investigación en Biotecnología. UAEM
- BT-90** Electrochemical analysis of the redox metabolites produced by *Pseudomonas aeruginosa* NEJ01R. **Pérez-García, Jesús Alberto**. Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C.
- BT-91** Biodegradation of bisphenol a by *Pleurotus ostreatus* grown in submerged fermentation and effect on laccase enzymes activity. **Georgina Pérez-Montiel**. Autonomous University of Tlaxcala
- BT-92** Effect of the extracts of the plants *Bouvardia ternifolia* and *Solanum nigrescens* on the growth of *Escherichia coli*. **Georgina Pérez-Montiel**. Laboratorio de Biología Experimental. Facultad de Agrobiología, Universidad Autónoma de Tlaxcala
- BT-93** Entomochemicals present in different phenological states of the Central American locust (*Schistocerca piceifrons piceifrons*, Walker). **Rogelio Pérez-Ramírez**. Instituto Tecnológico de Ciudad Victoria-División de Estudios de Posgrado e Investigación
- BT-94** Partial purification of an intracellular  $\beta$ -glucosidase from *Clavispora lusitaniae*. **Odilia Pérez-Avalos**. Department of Biotechnology and Bioengineering. CINVESTAV-IPN
- BT-95** Physiological role of cytokinins in *Trichoderma atroviride*. **María Daniela Porras Troncoso**. Laboratorio Nacional de Genómica para la Biodiversidad. CINVESTAV IPN

- BT-96** Shrimp waste used for biotechnological purposes. **Laura Itzel Quintas Granados.** Universidad Mexiquense del Bicentenario Unidad de Estudios Superiores Tultitlán
- BT-97** Regulated plasmid construction to express a bioactive lectin of *Phaseolus acutifolius* in *Trichoderma reesei*. **Ramírez-Baltazar S.** Unidad de Microbiología Básica Aplicada, Facultad de Ciencias Naturales. Universidad Autónoma de Querétaro
- BT-98** *In silico* analysis of a metagenomic obtained from marine sponges: A lignocellulolytic prospection. **Daniela D. Ramírez-Escamilla.** Universidad Autónoma del Estado de Morelos
- BT-99** Characterization of cell wall resident proteins NCW-3, ACW-1 and CCG-6 as possible anchors for protein display in *Neurospora crassa*. **Ana Sofía Ramírez-Pelayo.** Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco
- BT-100** Fungal-biosynthesized silver nanoparticles (AgNPs) and its use to prevent biofilm formation of Uropathogenic *Escherichia coli* (UPEC). **Rosa María Ramírez Santoyo.** Unidad Académica de Ciencias Biológicas, Universidad Autónoma de Zacatecas
- BT-101** Efficiency comparison of polyclonal antibodies against MDM2 made in rabbit and chicken. **Yolanda Reboloso-Gómez.** Lab. de Interacciones Biomoleculares y Cáncer. Instituto de Física, UASLP
- BT-102** Heterologous expression of an antimicrobial peptide generated by bioinformatic analysis of anurans sequences. **Diana Laura Resendiz Torres.** Centro de Investigación en Biotecnología, Universidad Autónoma del Estado de Morelos
- BT-103** *In vitro* probiotic assessment of *Pantoea dispersa* isolated from aguamiel and pulque. **Allison Vianey Valle Bravo.** Universidad Politécnica del Estado de Morelos
- BT-104** Analysis of swollenin and ceratoplatenin expression of *Trichoderma atroviride* strain in response to root exudates and their interaction with *Capsicum annuum* L. **Candelario Rodríguez-Serrano.** Centro de Investigación en Biotecnología. UAEM
- BT-105** Design of a system of temporary immersion of *in vitro* cultures of plants by gravity at laboratory level. **José Ramón Rodríguez Vázquez.** Unidad Profesional Interdisciplinaria de Ingeniería. Campus Guanajuato. IPN
- BT-106** Coupling planar chromatography directly to ambient ionization Mass Spectrometry (AIMS) for Phytochemical Profile Analysis. **Nancy Shyrley Garcia-Rojas.** CINVESTAV Unidad Irapuato
- BT-107** Cloning and expression of the *fur*<sub>GDI\_1248</sub> gene of *Gluconacetobacter diazotrophicus* Pal 5. **Roldan-León B. E.** Laboratory of Microbial Physiology of the Interaction Microorganism-Host. CICM-ICUAP. BUAP
- BT-108** Development of a new viral vector system for overexpression of recombinant proteins of pharmaceutical interest in *Chlamydomonas reinhardtii*. **Alejandro Romo-Avalos.** Instituto Potosino de Investigación Científica y Tecnológica, A.C

**GENETICS, EPIGENETICS AND GENETIC REGULATION III**

- GR-59** Differential expression of components of the hepatic glutamatergic system in cirrhosis and hepatocarcinoma. **Isabel Méndez**. Instituto de Neurobiología, UNAM, Campus Juriquilla
- GR-60** Parthenogenesis: insights from its molecular mechanisms in plants. **Javier Mendiola**. Grupo de Desarrollo Reproductivo y Apomixis. UGA Laboratorio Nacional de Genómica para la Biodiversidad, LANGEBIO
- GR-61** Evaluation of the expression and function of histone methyltransferases in hepatocytes of healthy and obese mice. **Paola Berenice Mass Sánchez**. Instituto de Investigaciones Biomédicas. UNAM
- GR-62** Identification of germinal and somatic mutations in *BRCA1* and *BRCA2* by next-generation sequencing in patients with breast and ovarian cancer. **Oliver Millan-Catalan**. Laboratorio de Genómica. Instituto Nacional de Cancerología
- GR-63** Analysis of the expression of molecules and transcription factors involved in the signaling pathways NF- $\kappa$ B and Adenylate cyclase in the expression of IL-10 in macrophages. **Lourdes Millán Pérez Peña**. Instituto de Ciencias, BUAP
- GR-64** Molecular cloning and transient expression of recombinant human PPAR $\gamma$  in HEK293T cells under an inducible Tet-on system. **Sonia Montero Molina**. School of Chemistry, Universidad Autonoma de Nuevo Leon
- GR-65** Activity of V2 and V3 promoters from *ST3GAL4* gene under effect of E6 viral oncoprotein from HPV 16. **Monterrosas Santamaría José Ricardo**. Facultad de Ciencias Biológicas, Benemérita Universidad Autónoma de Puebla
- GR-66** Protein composition and biological activities of the venom from *Ophryacus sphenophrys*. **Luis Sergio Muñoz Carrillo**. Escuela Nacional de Ciencias Biológicas, IPN
- GR-67** Establishment of a cellular model of differentiated human myocytes for the study of the lncRNAs alterations involved in the pathogenesis of myotonic dystrophy type 1 (DM1). **Nadia Mireya Murillo Melo**. Department of Genetics, National Rehabilitation Institute
- GR-68** TGF- $\beta$ 1 induced profound methylation changes in fibroblasts, and revealed an unexpected role of Homer1 in idiopathic pulmonary fibrosis. **Miguel Negreros Amaya**. Facultad de Ciencias, UNAM
- GR-69** Alteration in the proliferation and migration of colorectal cancer cells derived from the interaction of miR-124 and GPT2. **David Núñez Corona**. Laboratorio de Genómica Funcional del Cáncer (UBIMED)
- GR-70** *Debaryomyces hansenii* alternate CUG codon analysis. **Daniel Ochoa Gutiérrez**. Laboratorio de Biología Molecular y Genómica, Facultad de Ciencias, UNAM
- GR-71** Interaction of RE1-Silencing Transcription factor with E6 gene of the Human Papillomavirus: a plausible mechanism for E6 transcription regulation. **Carlos Ortuño Pineda**. Universidad Autónoma de Guerrero
- GR-72** Analysis of the interaction of YwqL and MutSL during the processing of

- deaminated DNA bases in *Bacillus subtilis*. **Adriana Guadalupe Patlán-Vázquez**. Departamento de Biología, Universidad de Guanajuato
- GR-73** The role of miRNA regulation during sarcopenia in skeletal muscle from aged female rats. **Gibrán Pedraza-Vázquez**. Universidad Autónoma Metropolitana Iztapalapa. Instituto Nacional de Geriátria
- GR-74** Transcriptome analyses of miR-122 knockdown breast cancer cells reveal new insights into molecular determinants of resistance to radiotherapy. **Isidro Xavier Pérez Añorve**. Metropolitan Autonomous University, Cuajimalpa Unit
- GR-75** Role of ZNF365 in Pulmonary Fibrosis. **Juan Manuel Pérez Huacuja Urista**. Facultad de Ciencias, UNAM
- GR-76** Transformation of *Metarhizium guizhouense* mediated by *Agrobacterium tumefaciens*. **Iván Horacio Piña-Torres**. Department of Biology, Division of Natural and Exact Sciences, University of Guanajuato
- GR-77** Finding insights on telomere dynamics in telomerase negative strains of *Ustilago maydis*. **Carmen María Posadas Gutiérrez**. Centro de Investigaciones en Ciencias Microbiológicas. BUAP
- GR-78** Fungal metabolites as putative epi-modulators: A case study with BET bromodomain BRD4. **Fernando D. Prieto-Martínez**. Facultad de Química. UNAM
- GR-79** Identification of mycorrhizal symbiosis specific autophagy genes under TOR signal disruption in common bean. **Elsa-Herminia Quezada Rodríguez**. Ciencias Agrogenómicas, Escuela Nacional de Estudios Superiores León. UNAM
- GR-80** Genetic and physiological interactions between the mitochondrial protein Slm35 and the components of the autophagy machinery. **Josué M.J. Ramírez-Reyes**. Departamento de Genética Molecular. Instituto de Fisiología Celular, UNAM
- GR-81** The role of the histone deacetylases in the morphology and virulence of the fungus *Macrophomina phaseolina* (Tassi Goid). **Ramos-García, Víctor Hugo**. Centro de Biotecnología Genómica - IPN
- GR-82** Isolation and Expression Levels of SRY-box 9 (SOX9) in Harderian Glands of Syrian Hamster (*Mesocricetus auratus*). **Luis Ramos Tavera**. Department of Reproductive Biology, Instituto Nacional de Ciencias Médicas y Nutrición
- GR-83** Mutation Analysis of Aldo-Keto Reductases (*AKR1C2/4*) and *HSD17B6* in Subjects 46,XY with Nonsyndromic Hypospadias. **Luis Ramos Tavera**. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán
- GR-84** Transcriptional network evolution underlying biofilm formation in *Candida maltose*. **Aníbal Uriel Reyes Mérida**. Departamento de Ingeniería Genética, CINVESTAV – Irapuato
- GR-85** Probing the phosphoryl-group transfer routes in the ArcB dimer. **Rodríguez Rangel C.** Departamento de Genética Molecular, Instituto de Fisiología Celular, UNAM
- GR-86** Characterization of the promoter of *MYO1G* and *MYO1F* human: Gene regulation of basal transcription. **Rosa Isela Rodríguez Téllez**. Departamento de Microbiología, Escuela Nacional de Ciencias Biológicas, IPN. Hospital Infantil de México
- GR-87** Search for genes involved in degradation of Benzo[a]pyrene in *Bacillus*

*licheniformis* M2-7. **Augusto Rojas-Aparicio**. Nucleic Acid and Protein Laboratory, Autonomous University of Guerrero

## IMMUNOLOGY & PARASITOLOGY II

- IP-17** Effect of blocking oestrogen receptors on the IFN- $\gamma$  and IL-10 mRNA expression in the brain of mice infected with *P. berghei* ANKA. **Teresita de Jesús Nolasco-Pérez**. Laboratorio de Inmunología Molecular, Facultad de Estudios Superiores Zaragoza, UNAM
- IP-18** Immunomodulatory effects of thionin Thi2.1 from *Arabidopsis thaliana* on bovine mammary epithelial cells. **María T. Arceo-Martínez**. Universidad Michoacana
- IP-19** Biochemical characterization of allergens isolated from different sources for skin tests. **Aranxa Zu Ortiz Pacheco**. Universidad Politécnica del Estado de Morelos
- IP-20** Cytokine profile in serum and bronchoalveolar lavage from patients with primary Sjögren's Syndrome. **Daniel Paz Gómez**. Instituto Nacional de Enfermedades Respiratorias "Ismael Cosío Villegas". Laboratorio de Enfermedades Reumáticas
- IP-21** CD13 mediates phagocytosis in human neutrophils. **Gloria Erandi Pérez Figueroa**. Departamento de Inmunología, Instituto de Investigaciones Biomédicas, UNAM
- IP-22** Participation of neutral sphingomyelinases to *in vitro* virulence of *Entamoeba histolytica*. **Fátima Ramírez-Montiel**. Departamento de Biología y Departamento de Farmacia. División de Ciencias Naturales y Exactas. Universidad de Guanajuato
- IP-23** Cloning and expression of Cathepsin-B from *Fasciola hepatica* in *Escherichia coli*. **Miguel Ángel Ramírez Valdivia**. Universidad Politécnica del Estado de Morelos
- IP-24** Exploration of innate immune responses of Northern elephant seal pups throughout their fasting period. **Nami Morales-Duran**. Facultad de Ciencias Naturales, Universidad Autónoma de Querétaro
- IP-25** Characterization of a mutant of the enzyme trans-sialidase from *Trypanosoma cruzi* (TcTS) and its potential for a vaccine development against chagas disease. **Juana Elizabeth Reyes Martínez**. Ciencias Naturales y Exactas. Universidad de Guanajuato
- IP-26** The calcium homeostasis of the Golgi apparatus could be regulated by an SPCA in *Entamoeba histolytica*. **Andrés Salas Casas**. Instituto de Ciencias de la Salud. Universidad Autónoma del Estado de Hidalgo
- IP-27** Suramin Evokes Two Effects on Human P2X Receptors of Macrophages. **Eydie Mariela Vargas-Martínez**. Instituto Potosino de Investigación Científica y Tecnológica, A.C.
- IP-28** Effect of three different organic compounds on the cytotoxicity of *Trichomonas vaginalis* toward HeLa cells. **Laura Isabel Vázquez-Carrillo**. Posgrado en Ciencias Genómicas, Universidad Autónoma de la Ciudad de México
- IP-29** Gut Mucopolysaccharide Levels in Mice Treated with Bovine Lactoferrin. **Vega-Bautista Alan**. Departamento de Sistemas Biológicos, UAM-Xochimilco
- IP-30** Production, characterization and epitope mapping of a novel anti-N-

truncated/pyroglutamate-modified A $\beta$ N3(pE) peptide. **David Vladimir Venegas Jerónimo**. Instituto de Investigaciones Biomédicas, UNAM

- IP-31** Exposure to an Enriched Environment Attenuates Mouse Experimental Colitis. **Tomás Villaseñor Toledo**. Laboratorio de Neuroinmunobiología, Departamento de Medicina Molecular y Bioprocesos, Instituto de Biotecnología, UNAM

### MEDICINE HEALTH & NUTRITION III

- MH-57** Association between insulin resistance and anthropometric, physiologic and metabolic risk factors in scholars from the state of Queretaro. **Alan M. Juárez-Ramírez**. School of Medicine. Autonomous University of Queretaro
- MH-58** Effect of curcumin on the proteins glycation and ppar expression protein in heart of mice fed with high fructose content. **María Cristina León-García**. Dpt. of Medical Sciences, University of Guanajuato
- MH-59** Expression of ITG $\beta$ 1 and LAMC1 in cervical samples from patients with HPV infection, Intraepithelial Squamous Lesion and cervical cancer. **Alejandro Linares-Martínez**. Ciencias Químico Biólogo Parasitólogo, Universidad Autónoma de Guerrero
- MH-60** Evaluation of the correlation between renal diseases and obesity. **Jarumi de los Ángeles López Flores**. Universidad Juárez Autónoma de Tabasco
- MH-61** Antiproliferative, necrotic and apoptotic activity of the glycoconjugates Diosgenin-2-acetamido-2-deoxy-beta-D-glucopyranoside (MF-10) and Diosgenyl 2-amino-2-deoxy-beta-D-glucopyranoside hydrochloride (MF-11) In Vitro. **Hugo López Muñoz**. FES Zaragoza, UNAM
- MH-62** Antiproliferative effect of naringenin with de coexposition with bisphenol A in colon cancer cells. **Sara Julietta Lozano Herrera**. Facultad de Medicina. Universidad Autónoma de Querétaro
- MH-63** Molecular interactions between human osteosarcoma biomarkers and cancer treatment drugs. **Salvador Augusto Macías-Sánchez**. Facultad de Medicina, Universidad Autónoma del Estado de Morelos
- MH-64** Effects of *V. meridionale* on insulin resistance and HDL function markers in women with metabolic syndrome: a randomized, placebo-controlled trial. **Marín-Echeverri C.** Escuela de Microbiología. Universidad de Antioquia
- MH-65** MMP-9 in presence of nicotinamide in breast cancer cells. **María Guadalupe Martínez Hernández**. Morphology and Function Unity, Faculty of Professional Studies Iztacala, UNAM
- MH-66** IGF / IGFR complex expression in the MDA MB 231 tumor line: role of ER $\beta$  activation. **Max Alejandro Maximino Rojas**. Instituto de Fisiología, Benemérita Universidad Autónoma de Puebla
- MH-67** Magnetic signaling with modified nanoparticles. **Ixaura Celeste Medina-Medina**. Laboratorio de Interacciones Biomoleculares y Cáncer. Instituto de Física, UASLP
- MH-68** miRNA expression profiling of liver cancer cells-derived extracellular vesicles: an approach for hepatocellular carcinoma diagnostic. **Francisco Alfredo Molina Pelayo**. Centro Universitario de Investigaciones Biomédicas, Universidad de



## Colima

- MH-69** *In vitro* evaluation of a new bioactive and biphasic implant with potential application in osteochondral tissue engineering. **Nidia Karina Moncada-Saucedo**. Laboratorio de Medicina Regenerativa. Departamento de Bioquímica. Facultad de Medicina. UANL
- MH-70** microRNAs implications in the intracellular calcium dynamics regulation in hepatocellular carcinoma. **Jesús Monroy Rodríguez**. Centro Universitario de Investigaciones Biomédicas, Universidad de Colima
- MH-71** Effect of rice bran on oxidative stress in older adults with cognitive impairment. **Alejandro Morales Aparicio**. Escuela Superior de Medicina, IPN
- MH-72** Rhythmic Changes in Oxidative Stress Indicators of Ovarian Tissues in Adult Rats Related to Expression on Dopaminergic Receptor Type 1 (RDA1) and DARPP-32 in Different Steps of Estral Cycle. **José Luis Morán Perales**. Benemérita Universidad Autónoma de Puebla, Instituto de Ciencias
- MH-73** Design and evaluation of selective cell penetrating peptides in mammalian cells. **Rafael Ubaldo Morán Torres**. Instituto de Fisiología Celular, UNAM
- MH-74** Study of structure, function, and relationship of platelet's receptors and membrane bilayers in atherosclerosis. **Armando Ocampo del Valle**. Universidad Autónoma del Estado de Morelos, Facultad de Medicina
- MH-75** Route of food allergens administration is critical for the sensitization of BALB/c mice. **Noé Ontiveros Apodaca**, Departamento de Ciencias Químico Biológicas y Agropecuarias, Universidad de Sonora.
- MH-76** Caffeine inhibits migration and invasion in MDA-MB-231 breast cancer cell line. **Mario Israel Oregel Cortez**. Facultad de Medicina, Universidad Autónoma de Baja California
- MH-77** Effect of curcumin on PPAR $\alpha$  and MLYCD expression in liver of high fructose diet-treated mice. **Luz A. Ortega-Hernández**. División de Ciencias de la Salud, Campus León, Universidad de Guanajuato
- MH-78** CETPI: a new protein involved in the pathophysiology of sepsis and septic shock. **Eréndira Guadalupe Pérez Hernández**. Instituto de Fisiología Celular, UNAM
- MH-79** Bovine cartilage decellularized matrix improves chondrogenic differentiation and Young's modulus of Silk fibroin scaffolds. **Vanessa Pérez-Silos**. Departamento de Bioquímica. Facultad de Medicina. Universidad Autónoma de Nuevo León
- MH-80** High HPV prevalence and its effects on pro-inflammatory cytokine expression in semen of Mexican patients. **Elvia Pérez Soto**. Facultad de Medicina, Autónoma del Estado de México
- MH-81** Polymorphism detection in genes associated to isoniazid metabolism for dosage adjustment in San Luis Potosi. **Pettet-Ruiz Guillermo**. Instituto Potosino de Investigación Científica y Tecnológica
- MH-82** CLIC5 subcellular localization and participation in Hepatocellular Carcinoma. **Carolina Piña Vázquez**. CINVESTAV IPN
- MH-83** YY1 negatively regulates the XAF1 gene expression. **Miguel Angel Quevedo-**

**Castillo.** Facultad de Medicina, UNAM

- MH-84** The effect of administrating an extract from pitaya juice rich in betalains on cisplatin induced nephrotoxicity and cellular damage, *in vivo* and *in vitro*. **Yadira Ramírez-Rodríguez.** Instituto Potosino de Investigación Científica y Tecnológica
- MH-85** Polymorphism rs2295490 in the TRIB3 gene and its relationship with lipid metabolism in patients with type 2 diabetes. **Xochilth Natividad Ramos Deloya.** Facultad de Ciencias Químico Biológicas. Universidad Autónoma de Guerrero

### MICROBIOLOGY & VIROLOGY III

- MV-50** Determination of factors that define the tropism of astrovirus in established cell lines. **Guzmán-Ruiz Leticia.** Departamento de Genética del Desarrollo y Fisiología Molecular, Instituto de Biotecnología, UNAM
- MV-51** Isolation and characterization of bacteria resistant to cobalt. **César Díaz Pérez.** Campus Celaya-Salvatierra. Universidad de Guanajuato
- MV-52** Assessing squash root microbiome along a historical aridity gradient. **Cristóbal Hernández Álvarez.** Departamento de Biología Celular, Facultad de Ciencias
- MV-53** Effect of antimicrobial activity of hexanic and ethanolic extracts of *Lippia graveolens* against the *Salmonella enterica*. **María Susana Hernández-Hernández.** Universidad Tecnológica de Morelia
- MV-54** Determination of the regulatory mechanism of the Toxin-Antitoxin system of plasmid pUM505. **Karen Cecilia Hernández Ramírez.** Instituto de investigaciones Químico Biológicas
- MV-55** Influenzavirus A(H1N1)pdm09 enhances the adhesion of *A. fumigatus* resting conidia to the alveolar epithelial cell line A549. **Fernando Hernández-Sánchez.** Instituto Nacional de Enfermedades Respiratorias
- MV-56** Isolation and characterization of bacteria with plant growth promotion rizobacteria (PGPR) associated to native maize of a region of the state of Guerrero. **Zaida Asunción Hernández-Martínez.** Instituto de Ecología A.C.
- MV-57** Search, amplification and cloning of the gene *csrA* in *Bacillus licheniformis* M2-7. **Juanita Jacobo Valerio.** Laboratory of Biotechnology, Autonomous University of Guerrero
- MV-58** Assessment of protein fractions culture supernatant of *Mycobacterium bovis* in interferon gamma release assays by ELISpot. **Laura Jaramillo Meza.** CENID-Microbiología Animal INIFAP
- MV-59** Evaluation of the effect of trypsin on the biofilm-forming capabilities of commensal and infective isolates of *Staphylococcus epidermidis*. **Sergio Martínez-García.** Escuela Nacional de Ciencias Biológicas, IPN
- MV-60** Characterization of a novel ciprofloxacin resistance protein plasmid encoded, CrpP. **Víctor M. Chávez-Jacobo.** Instituto de Investigaciones Químico-Biológicas, UMSNH
- MV-61** Partial characterization of a lipoprotein from coliphage mEp021 involved in Superinfection Exclusion. **Martínez Soto Carlos E.** Departamento de Genética y Biología Molecular. CINVESTAV-Unidad Zacatenco

- MV-62** Study of essential genes in *Pseudomonas aeruginosa*. **Enrique Martínez-Carranza**. Instituto de Investigaciones Biomédicas, UNAM
- MV-63** Obtention of a *ctpF* knockout mutant in *Mycobacterium tuberculosis*: a potential target of attenuation. **Milena Maya Hoyos**. Departamento de Química. Facultad de Ciencias. Universidad Nacional de Colombia
- MV-64** Biological traps to recruit plant associated microbiomes, in multiple types of soils. **Gerardo Mejía**. Departamento de Biología Celular, Facultad de Ciencias, UNAM
- MV-65** Filamentous Fungi Cell Wall PIR Proteins: Diversity, Function and Application. **Paul Montaña-Silva**. Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco
- MV-66** Epinephrine and norepinephrine induce *Actinobacillus seminis* biofilm dispersion. **Juan Fernando Montes-García**. Facultad de Estudios Superiores Iztacala, UNAM
- MV-67** Characterization functional of riboswitches T-box in Firmicutes and the other gram-positive bacteria. **Nataly Morales Galeana**. Instituto de Biotecnología, UNAM
- MV-68** Regulation of E2348C\_1013 by GrlA in enteropathogenic *Escherichia coli*. **Álvaro Damián Morales Ibarra**. Instituto de Biotecnología, UNAM
- MV-69** Potential of colonization from fungal endophyte isolated from *Eichhornia crassipes* on bean plants. **Adán Topiltzin Morales-Vargas**. Universidad de Guanajuato, Campus Celaya-Salvatierra
- MV-70** Characterization of plant growth promoting rhizobacterium isolated from saline environments of the Chihuahuan Desert. **Claudia Estefania Navarro Muñoz**. Facultad de Ciencias Biológicas, Universidad Juárez del Estado de Durango
- MV-71** Lambda phage display as a model for a ZIKV vaccine. **Negrete-Méndez, Honorio**. Departamento de Genética y Biología Molecular. CINVESTAV-Unidad Zacatenco
- MV-72** Analysis of the regulation and function of chaperone-usher fimbrial operons in *Citrobacter rodentium*. **Ortiz-Jiménez Stephanie**. Instituto de Biotecnología, UNAM
- MV-73** Human Papillomavirus prevalence in oral cavity from University population. **Nidia Gary Pazos Salazar**. Facultad de Ciencias Químicas, BUAP
- MV-74** Rotaviruses associate with extracellular vesicles in MA104 cells. **Arianna Pérez Delgado**. Instituto de Biotecnología, UNAM

## BIOCHEMISTRY AND PLANT MOLECULAR BIOLOGY

- P-1** Diversification of tRNA genes through duplication in *Cucurbita*. **Xitlali Aguirre Dugua**. Facultad de Estudios Superiores Iztacala, UNAM
- P-2** Real-Time Monitoring of *Nicotiana benthamiana* Volatile Response to Microbial Scents by Low-Temperature Plasma Mass Spectrometry. **Raúl Alcalde Vázquez**. Centro de Investigación y de Estudios Avanzados del IPN, Unidad Irapuato
- P-3** Subcellular Localization of long non-coding RNA Using Modified Two Component System in Plants. **Jaime Aportela Cortez**. Instituto de Biotecnología, UNAM
- P-4** Cold tolerance and RNA binding activity of the AtGRDP2 protein in *Arabidopsis thaliana*. **Saraí Castro Bustos**. División de Biología Molecular, IPICYT, A.C.

- P-5** Evaluation of gene expression and translational status in the silencing line amiR: ADC-L2 of *Arabidopsis thaliana* using polysome profiles and detection of transcripts. **Montserrat Chacón-Flores**. División de Biología Molecular, Instituto Potosino de Investigación Científica y Tecnológica, A.C.
- P-6** Generation of scientific and technological strategies with a multidisciplinary and interinstitutional approach to face the threat represented by exotic ambrosia beetles to the agricultural and forestry sectors of Mexico. **José A. Guerrero-Analco**. Instituto de Ecología A.C.
- P-7** Factors that regulate SPATULA (SPT) expression in *Arabidopsis thaliana*. **Angela Guadalupe Juárez-Corona**. Unidad de Genómica Avanzada (LANGEBIO), CINVESTAV-IPN
- P-8** Cracking the mysteries of zygotic embryogenesis in avocado by systems biology. **Janet Juarez-Escobar**. Red de Estudios Moleculares Avanzados, Instituto de Ecología A.C.
- P-9** The effect of synthetic microbial rhizosphere community on the growth of pioneer plants, in mine tailings. **Arely Lechuga-Jiménez**. Departamento de Biología Celular Facultad de Ciencias, UNAM
- P-10** Identification of candidate genes regulated by ATX1 and involved in root development. **Selene Napsucialy Mendivil**. Departamento de Biología Molecular de Plantas, Instituto de Biotecnología, UNAM
- P-11** Lead shortening of primary root share mechanism with phosphate starvation and is independent of the STOP1 pathway. **Ortiz-Luevano Ricardo**. Unidad Académica de Ciencias Biológicas Universidad Autónoma de Zacatecas
- P-12** Absence of BYPASS1 signal aborts the arbuscular mycorrhizal invasion in *Phaseolus vulgaris*. **Manoj-Kumar Arthikala**. Ciencias Agrogenómicas, Escuela Nacional de Estudios Superiores, Unidad León. UNAM

## CELL BIOLOGY

- CB-1** Proteins implicated during the formation and degradation of Lipid droplets in *Ustilago maydis*. **Minerva Georgina Araiza Villanueva**. Escuela Nacional de Ciencias Biológicas, IPN
- CB-2** Changes of Acrosomal pH During Human Sperm Capacitation. **Gabriela Carrasquel Martínez**. Instituto de Biotecnología, UNAM
- CB-3** Actin cytoskeleton dynamics during human sperm capacitation. **Valeria Castillo-Viveros**. Instituto de Biotecnología, UNAM
- CB-4** Image-based flow cytometry as a tool to study rheotaxis in human spermatozoa. **Mariana Beatriz Olivares Urbano**. Instituto de Biotecnología, UNAM
- CB-5** Expression of Septins 1 and 2 during the Oogenesis of *Aedes aegypti*. **José Ángel Rubio Miranda**. CINVESTAV IPN.
- CB-6** A predicted cargo adaptor, CNI, plays an important role in traffic of specific essential material for the growth of *Neurospora crassa*. **Luis Enrique Sastré-Velásquez**. Departamento de Microbiología. CICESE

**BASIC BIOCHEMISTRY IV**

- B-88** Biochemical characterization for the enzyme *KBat1*, a branched-chain amino acid transaminase in *Kluyveromyces lactis*. **Escudero-Reyes J. Raul**. Bioquímica y Biología Estructural, Instituto de Fisiología Celular, UNAM
- B-89** Changes in the transcription of autophagy genes and proteases in aged cells of yeast. **René Abraham Mejía Cahuantzi**. Instituto de Ciencias. Benemérita Universidad Autónoma de Puebla
- B-90** Modification in the mRNA level of transporter coding genes in aged cells of yeast. **Nora Hilda Rosas Murrieta**. Centro de Química. ICUAP. Benemérita Universidad Autónoma de Puebla
- B-91** Betaine Aldehyde Dehydrogenase is regulated during WSSV infection in white shrimp. **Norma Aurora Stephens Camacho**. Universidad Estatal de Sonora
- B-92** Characterization of the human solute carrier SLC16A11 and its sequence variant present in Type 2 Diabetes. **Hilda Sánchez Vidal**. Department of Food Science and Technology, Instituto Nacional de Ciencias Médicas y Nutrición
- B-93** Structural characterization of the heavy chain of dynein. **Santiago Sánchez Saúl**. Lab. 2. CINVESTAV Zacatenco
- B-94** Mitochondrial permeability transition is involved in silica nanoparticle-induced cardiac injury through oxidative stress. **Christian Silva-Platas**. Escuela Nacional de Medicina y Ciencias de la Salud, Tecnológico de Monterrey
- B-95** NMR-based metabolomic analysis on the seasonal variation of *Ternstroemia pringlei* (Rose) Standl. **Alexis Uriel Soto- Díaz**. Centro de Investigación en Biotecnología, UAEM
- B-96** Effect and study of inhibitors of the enzymes DNA topoisomerases I and II on *Candida* spp. **Tagle-Olmedo Tania**. Laboratorio de Biología Molecular de Bacterias y Levaduras. Escuela Nacional de Ciencias Biológicas, IPN
- B-97** ARP2; a determinant molecule in apoptosis of tumoral cells, new implications in atherosclerosis. **Juana Virginia Tapia-Vieyra**. Instituto de Fisiología Celular, UNAM
- B-98** Does the NaStEP-NaSIPP interaction in mitochondria trigger programmed cell death in Nicotiana pollen tubes? **Edgar Nájera Torres**. Departamento de Bioquímica. Facultad de Química, UNAM
- B-99** Characterization of super-complex with NADP<sup>+</sup>-isocitrate dehydrogenase activity in mitochondria from human placenta. **Viviana Urban-Sosa**. Departamento de Bioquímica, Facultad de Medicina, UNAM
- B-100** Biochemical, biophysical and structural characterization of isoniazid resistance KatG variants from *Mycobacterium tuberculosis*. **Brenda Georgina Uribe Vázquez**. Cellular Engineering and Biocatalysis Department, Biotechnology Institute, UNAM
- B-101** *Cis*-regulatory evolution leads to the expression of the *phoH* ancestral gene in conditions relevant for *Salmonella* virulence. **Marcos Antonio Valdespino Díaz**. Instituto de Biotecnología, UNAM
- B-102** Biochemical and physiological characterization of plasma membrane H<sup>+</sup>-ATPases PMA1 and PMA2 from corn smut basidiomycete *Ustilago maydis*. **Melissa Vázquez-**

- Carrada.** Escuela Nacional de Ciencias Biológicas, IPN
- B-103** Analysis of the control of the trypanothione synthesis in *Trypanosoma cruzi*. **Citlali Vázquez.** Instituto Nacional de Cardiología Ignacio Chávez
- B-104** Biochemical characterization of the thermolabile lecithin dependent hemolysin of *Vibrio parahaemolyticus*. **Luis Enrique Vazquez Morado.** Universidad de Sonora
- B-105** Integrity, activity and stoichiometry of the respiratory supercomplexes of *Ustilago maydis*. **Héctor Vázquez-Meza,** Deyamira Matuz-Mares, Juan Pablo Pardo. Department of Biochemistry, Faculty of Medicine, UNAM
- B-106** Structural stability of the glucose-6-phosphate dehydrogenase of *Pseudomonas aeruginosa* provided by its substrate. **Roberto Velasco-García.** Facultad de Estudios Superiores Iztacala. UNAM
- B-107** Layered Double Hydroxides (LDH) for the immobilization by metal affinity of genetic engineered enzymes for the development of biosensors. **Gilberto Velázquez-Juárez.** Departamento de Química. CUCEI. Universidad de Guadalajara
- B-108** PGC-1 and perilipin during physiological cardiac hypertrophy induced by pregnancy. **Denisse Verduzco-Ávila.** Ciencias Químico-Biológicas y Agropecuarias. Universidad de Sonora
- B-109** A suppressor mutation of Mss51 restores Cox1 synthesis. **Cristian Alberto Vergara Gerónimo.** Genética Molecular, Instituto de Fisiología Celular, UNAM
- B-110** Kinetic and thermodynamic characterization of the folding of the lysinearginine-ornithine binding protein (LAO) and its individual domains. **Jesús Renán Vergara Gutiérrez.** Departamento de Bioquímica, Facultad de Medicina, UNAM
- B-111** Mitigation of oxidative stress in neurodegenerative processes by the activation of aldehyde dehydrogenases. **Belem Yoval Sánchez.** Instituto Nacional de Cardiología “Ignacio Chávez”

#### BIOTECHNOLOGY IV

- BT-109** Identification of pigments in strains of *Pycnoporus*. **Leonardo Romo Patiño.** Facultad de Farmacia, Universidad Autónoma del Estado de Morelos
- BT-110** Design of a chromogenic culture medium based on Nejayote Water for the identification of *Candida albicans* involved in Vaginal Candidiasis. **Tayde Sepori Salgado Hernández.** Centro de Investigación en Biotecnología, UAEM
- BT-111** Physiological and molecular characterization of *Saccharomyces cerevisiae* strains for industrial Wine production. **Cindy Zuleyka Sánchez Arias.** Departamento de Biología. División de Ciencias Naturales y Exactas. Universidad de Guanajuato
- BT-112** Endophytes non- rhizobiales isolated from nodules of *Mimosa pudica* with biotechnological potential. **Ricardo Sánchez Cruz.** CEIB. Universidad Autónoma del Estado de Morelos
- BT-113** Molecular characterization of fructansucrase of *Clavibacter michiganensis* subsp *michiganensis*. **Azalia Sánchez Cruz.** Universidad Politécnica del Estado de Morelos
- BT-114** Preparation of nanostructures with controlled architecture by the self-assembly of designed DNA and proteins. **Eddie Guillermo Sánchez-Rueda.** Instituto de

## Química UNAM

- BT-115** Development of a nanocomposite with antibiofilm activity and permissive for delivery of Mesenchymal Stem Cells. **Sánchez-Sánchez, Roberto**. Unidad de Ingeniería de Tejidos Terapia Celular y Medicina Regenerativa, INR
- BT-116** Generating a diagnostic method for differentiation between Zika and Chikungunya virus by PCR, using samples Tabasco State. **Santos Fernández Ingrid Araceli**. Universidad Juárez Autónoma de Tabasco
- BT-117** Evaluation and microbiological determination, organoleptic and physicochemical of beer production with wild yeast. **Álvarez Quiroz Ernesto**. Facultad de Ciencias Biológicas. ICUAP BUAP
- BT-118** Arbuscular mycorrhizal symbiosis, growth and photochemical activity are affected by the phosphate concentration in *Stevia rebaudiana*. **Luis Gerardo Sarmiento López**. CEPROBI IPN
- BT-119** Sub-cloning and heterologous expression of Mnn1 enzyme from *S. cerevisiae* in *E. coli*. **Esteban Francisco Serrano**. División de Ciencias Naturales y Exactas. Universidad de Guanajuato
- BT-120** Deciphering the role of bean *RALF*, *FER* and *RIPK* genes in symbiosis with rhizobia. **Jorge Solís-Miranda**. Department of Plant Molecular Biology, Institute of Biotechnology, UNAM
- BT-121** Discovery of two bacterial type III polyketides with potential bioactive capacity from marine ecological niches. **Arianna Soto-Hernández**. Universidad de Colima
- BT-122** Partial characterization of *Scolopendra viridis* Say and *S. polymorpha* venom proteases. **Erika Duarte-Elguea**. Centro de Investigación en Biotecnología, UAEM
- BT-123** Activity of extracellular laccases of *Humphrellia coffeatum* grown on different substrates. **Maura Téllez Téllez**. Centro de Investigaciones Biológicas. UAEM
- BT-124** Growth of *Pleurotus ostreatus* in airlift reactor and stirred tank for laccase production. **Maura Téllez Téllez**. Maestría en Biotecnología y Manejo de Recursos Naturales, Universidad Autónoma de Tlaxcala
- BT-125** Entomochemicals from *Pterophylla beltrani* as bioactive compounds for food industry. **Jorge Ariel Torres-Castillo**. Instituto de Ecología Aplicada. Universidad Autónoma Tamaulipas
- BT-126** Characterization of cadB1 a new gene involved in the degradation pathway of chloranilic acid in *Herbaspirillum* sp. strain TQ07. **Luis Gerardo Treviño Quintanilla**. Universidad Politécnica del Estado de Morelos
- BT-127** Expression of Loos1 from fungus *Bjerkandera adusta* in plants of *Arabidopsis thaliana* regulated by an inducible promoter to develop an auto-pretreatment protocol. **Maria Magdalena Urzua-Abad**. Centro de Investigación en Biotecnología. UAEM
- BT-128** Efficient multiplication of *Vaccinium corymbosum* in temporary immersion systems (SIT). **Miriam Isabel Vargas Avila**. Unidad Profesional Interdisciplinaria de Ingeniería. Campus Guanajuato. IPN
- BT-129** *Pyr4*, a new selectable auxotrophic genetic marker in *Ustilago maydis*. **Alma Delia Vega Jiménez**. Laboratorio de Microbiología Molecular. Facultad de Ciencias

Naturales, Universidad Autónoma De Querétaro

- BT-130** Interaction studies at the molecular level protein-peptide, using calmodulin as a molecular target. **Isabel Velázquez-López**. Departamento de Bioquímica, Facultad de Medicina, UNAM
- BT-131** A fluorescent assay for the detection of alkyl glucosides and other non-ionic surfactants. **Wendy Xolalpa Villanueva**. Instituto de Biotecnología, UNAM
- BT-132** Influence of bacteria in the digestive system of the worm *Eisenia Foetida* in the degradation of polychlorinated biphenyls. **Adalberto Zenteno Rojas**. Instituto Tecnológico de Tuxtla-Gutiérrez
- BT-133** Incorporation of ORF2 from Porcine Circovirus Type 2 into genetically encoded particles by a self-aggregating peptide and its use as subunit vaccine. **Jesús Zepeda-Cervantes**. Instituto de Fisiología Celular, UNAM
- BT-134** Identification and characterization of the chitinases and glucanases produced by *Wickerhamomyces anomalus* and *Trichoderma harzianum* against crops phytopathogens. **Zepeda Giraud Luis Fernando**. ENCB. IPN

## REACTIVE OXYGEN SPECIES II

- ROS-15** Low-intensity and long-term training prevents sarcopenic obesity in female Wistar rats. **Beatriz Mena-Montes**. Ciencias de la Salud, UAM Iztapalapa
- ROS-16** The cardioprotective effect of sulforaphane is mediated through an Nrf-2 independent pathway. **Marcos Ostolga Chavarría**. Biomedicina Cardiovascular. Instituto Nacional de Cardiología
- ROS-17** Differential effects of carbohydrates and fatty acids on oxidative stress and mitochondrial alteration in a hypothalamic cellular line. **Itzel Pérez Ayala**. Facultad de Química, Universidad Autónoma de Querétaro
- ROS-18** Effect of 17- $\beta$  estradiol and progesterone on the evolution of Myocardial Infarction. **Diana Ramírez Hernández**. Facultad de Estudios Superiores Cuautitlán, UNAM
- ROS-19** Moringa oleifera extract attenuates alloxan-induced metabolic changes through suppressing the iNOS expression and modulating eNOS activity in heart and liver of rats. **Cristina Ramos Olivas**. Universidad Juárez del Estado de Durango
- ROS-20** Synthesis and characterization of antioxidant compounds and inhibitors of myeloperoxidase derived from cinnamic acid. **Astrid Mayleth Rivera Antonio**. Interdisciplinary Professional Unit of Biotechnology, IPN
- ROS-21** Fatty acids promoted oxidative stress in *Yarrowia lipolytica* cells. **Sandra Lucía Rodríguez-Teniente**. Facultad de Salud Pública y Nutrición, Universidad Autónoma de Nuevo León
- ROS-22** Association of telomere length, oxidative stress and frailty in an elder population. **José Darío Martínez-Ezquerro**. Unidad de Investigación Médica en Genética Humana. Centro Médico Nacional Siglo XXI, IMSS
- ROS-23** Does the antioxidant system and ABA are involved in aluminum tolerance during



- the first hours of treatment in *Fagopyrum esculentum* seedlings? **Ana Violeta Salazar-Chavarría**. Instituto de Ecología, UNAM
- ROS-24** Participation of Iba57p in the [2Fe-2S] cluster assembly of the Rip1 subunit into the cytochrome *bc1* complex from *Saccharomyces cerevisiae*. **Luis Alberto Sánchez Briones**. IIQB Universidad Michoacana
- ROS-25** Sulforaphane effects on nerve conduction velocity and brain cortex and hippocampus redox state of old male and female Wistar rats. **Roberto Santín Márquez**. Ciencias de la Salud, UAM Unidad Iztapalapa
- ROS-26** Effect of exposure to low doses of ozone on the expression of IL-17A during the process of progressive neurodegeneration in the hippocampus of rats. **Helena Solleiro-Villavicencio**. Facultad de Medicina, UNAM
- ROS-27** Malondialdehyde and carbonyl levels in Wistar rats treated with streptozotocin and sugar water in neonatal age. **Sergio Trinidad Rodríguez**. Facultad de Ciencias Químico Biológicas. Universidad Autónoma de Guerrero
- ROS-28** Evaluation of the enzymatic activity of catalase in a model of cancer treated with extracts of *Crotalaria retusa*. **José Roberto Velázquez Murillo**. Facultad de Estudios Superiores Zaragoza, UNAM

#### GENETICS, EPIGENETICS AND GENETIC REGULATION IV

- GR-88** Nuclear organization of breast cancer oncogenes: a new approach using CRISPR-dCas9 technology. **Pablo Antonio Rojas Reyes**. Instituto de Investigaciones Biomédicas, UNAM
- GR-89** Study of light response in *Metarhizium* spp. **Adriana García Tapia**. Universidad de Guanajuato
- GR-90** Characterization of differentially expressed long non-coding RNAs during the interaction between adipose-derived stem cells and cervical cancer cells. **Victor Hugo Rosales-Gallegos**. Instituto Nacional de Medicina Genómica
- GR-91** Functional characterization of mutations identified in the LMNA gene associated with dilated cardiomyopathy in Mexican patients. **Sandra Rosas-Madrigal**. Instituto Nacional de Medicina Genómica
- GR-92** Genetic edition in filamentous fungi mediated by CRISPR: *Sclerotium cepivorum* Berk and *Trichoderma atroviride*. **Luis Mauricio Salazar García**. Departamento de Biología. Universidad de Guanajuato
- GR-93** Effects of CFB inhibition by CRISPR-Cas in a breast cancer cell line. **Ixchel Maritrini Salgado Carranza**. Instituto Nacional de Medicina Genómica
- GR-94** HOTAIR knockdown inhibits Wnt pathway by re-expression of its negative regulators. **Eric Genaro Salmerón Bárcenas**. Laboratorio de Epigenética del Cáncer. Universidad Autónoma de Guerrero
- GR-95** Analysis of miRNAs and their relationship with molecular pathways of signaling to apoptosis, autophagy and inflammation, during the process sarcopenic in quadriceps femoral muscle tissue. **Jorge Sánchez Cedillo**. Hospital General de México
- GR-96** Phosphate deficiency negatively affects early steps of the symbiosis between

- common bean and rhizobia. **María del Socorro Sánchez-Correa**. Laboratorio de Genómica Funcional de Leguminosas. FES Iztacala, UNAM
- GR-97** LINC00052 roles in MCF-7 breast cancer cells, a migration inhibitor. **José Manuel Sánchez López**. Instituto Nacional de Medicina Genómica
- GR-98** MIR-7 and its target genes expression in breast cancer cell lines. **David Sánchez Marín**. Unidad de Biomedicina, Facultad de Estudios Superiores Iztacala, UNAM
- GR-99** In silico identification of the putative gene of the RNA subunit of telomerase and analysis of its disrupted mutants in *Ustilago maydis*. **Juan Antonio Sanpedro Luna**. Instituto de Ciencias, Benemérita Universidad Autónoma de Puebla
- GR-100** *Fabaceae* miR2199 regulates a bHLH transcription factor mRNA in response to water deficit. **Carlos Alfonso Sierra-Sarabia**. Departamento de Biología Molecular de Plantas, Instituto de Biotecnología, UNAM
- GR-101** Transcriptional coupling of base excision repair in sporulating *Bacillus subtilis* cells. **Valeria P. Suárez Castro**. Departamento de Biología, Universidad de Guanajuato
- GR-102** Pharmacogenomic algorithm for acenocumarol dosing. **Tomás Eduardo Taxis Valencia**. Instituto Nacional de Medicina Genómica
- GR-103** Relationship between *MCP-1* A-2518G polymorphism and microvascular complications in Mexican patients with type 2 diabetes mellitus. **Amairany Torres Alvarez**. Posgraduate Program in Genomic Sciences, Autonomous University of Mexico City
- GR-104** Exploring the epigenetic convergence between tumorigenesis in mammals and seed formation in flowering plants. **Mijael Alejandro Torres Mendoza**. Unidad de Genómica Avanzada. LANGEBIO. CINVESTAV Irapuato
- GR-105** Analysis of the photoreversible fluorescent protein iLOV as a new reporter gene to evaluate promoters in the protozoan *Giardia lamblia*. **María Fernanda Torres-Rojas**. Instituto Nacional de Pediatría. Secretaría de Salud
- GR-106** Evaluación de la actividad transcripcional de la vía de señalización WNT- $\beta$ -catenina en líneas celulares de cáncer colorrectal. **Samuel Trujano Camacho**. Facultad de Estudios Superiores Iztacala. UNAM
- GR-107** Circulating microRNAs profile in plasma patients with spinocerebellar ataxia type 7 (SCA7). **Claudia Valdez-Vargas**. Laboratory of Genomic Medicine, Department of Genetics, Instituto Nacional de Rehabilitación
- GR-108** RNA-seq approach to study seed dormancy and germination in *Cedrela odorata* L. **Miguel Ángel Vallejo Reyna**. Centro Nacional de Investigación Disciplinaria en Conservación y Mejoramiento de Ecosistemas Forestales, INIFAP
- GR-109** Analysis of promoter activity of the human gene *RB1* in hepatic cancer cell lines by epigenetic drugs. **Jorge Eduardo Vargas Gómez**. Centro de Investigación Biomédica del Noreste. Instituto Mexicano del Seguro Social
- GR-110** Deletion of a gene encoding for a chromatin remodeling protein causes increased stress sensibility and reduction of virulence in the phytopathogenic fungus *Ustilago maydis*. **Nubia Andrea Villota-Salazar**. Centro de Biotecnología Genómica, IPN
- GR-111** Investigating the role of PARP-1 in the early embryogenesis in *Drosophila*

*melanogaster*. **Jessica Samantha Cruz Ruiz**. Department of Developmental Genetics and Molecular Physiology, Institute of Biotechnology, UNAM

- GR-112** Relevance of the protein *N*-linked glycosylation in the virulence and immune recognition of *Sporothrix schenckii*. **Nancy E. Lozoya-Pérez**. Departamento de Biología, DCNyE, Campus Guanajuato, Universidad de Guanajuato

#### MEDICINE HEALTH & NUTRITION IV

- MH-86** Genetic and Immunologic Biomarkers in Pulmonary Arterial Hypertension. **Luisa María Reyes Cortés**. Escuela de Medicina y Ciencias de la Salud, Grupo de Enfoque Medicina Cardiovascular y Metabólica
- MH-87** Hypoglycemic components present in *Nasturtium officinale*. **Andrea Rico-Pedraza**. Michoacán University of Saint Nicholas of Hidalgo
- MH-88** Mass spectrometry as a tool to detect secretion proteins of mesenchymal stem cells used for cartilage regeneration. **Ríos-Castro Emmanuel**. Unidad de Genómica, Proteómica y Metabólica (UGPM), LaNSE, CINVESTAV IPN
- MH-89** Risk of Peripheral Arterial Disease and Metabolic Syndrome in adults of the ISSTEP Hospital. **Ma. de los Ángeles Rivera Juárez**. Research Area, Deanship of Health Sciences, UPAEP
- MH-90** Celecoxib increases toxicity of several clinical anti-cancer drugs in cervix carcinoma growth. **Diana Xochiquetzal Robledo-Cadena**. Departamento de Bioquímica, Instituto Nacional de Cardiología, Ignacio Chávez
- MH-91** Transcriptional Expression of the Unfold Protein Response Genes in Corneas from Patients with Keratoconus. **Eréndira Rosas-Ginez**. Universidad Autónoma de Aguascalientes, Centro de Ciencias de la salud
- MH-92** Molecular iodine/all trans retinoic acid as an effective neuroblastoma treatment. **Bertha Rueda Zarazúa**. Instituto de Neurobiología, UNAM
- MH-93** Effect of biotin supplementation in the diet on testes cellular proliferation. **Tonatiuh Salazar-Anzures**. Instituto de Investigaciones Biomédicas, UNAM
- MH-94** Analysis of microRNA expression in formalin-fixed paraffin embedded lung tissue from patients with interstitial lung disease secondary to autoimmune diseases. **Alfonso Salgado Aguayo**. Instituto Nacional de Enfermedades Respiratorias “Ismael Cosío Villegas”
- MH-95** Sex and time differences between kidney histological modifications after acute ischemic/reperfusion injury. **Sanchez-Briones M. E.** Multidisciplinary Academic Unit Huasteca Zone, Autonomous University of San Luis Potosi
- MH-96** Study of the expression of 9-O-acetylated sialic acid by the *Macrobraquium rosenbergii* lectin in a cell line of Squamous carcinoma of the oral cavity. **Hugo Sánchez Martínez**. Autonomous University Benito Juárez of Oaxaca
- MH-97** Alteration in cell viability, DNA damage and changes in Hsp70 expression in human leukocytes exposed to UVA light and heat. **David Alejandro García López**. Universidad Autónoma de Zacatecas
- MH-98** Isolation and purification of Extracellular Vesicles from breast cancer cell lines

- MDA-MB23 and T47D. **Alvaro Adrian Sandoval Montiel**. Centro de Química ICUAP, Benemérita Universidad Autónoma de Puebla
- MH-99** Characterization of a cell line with mesenchymal appearance possibly differentiating into cancer associated fibroblast from a FeNTA-induced RCC tumor. **José Dolores Solano Becerra**. Facultad de Química, UNAM
- MH-100** Determination of polycyclic aromatic hydrocarbons in a university population. **Samantha Daniela Suárez Pérez**. Universidad Juárez Autónoma de Tabasco
- MH-101** Analysis of cellular genes expressed in extracellular vesicles (EV) from the HeLa cell line. **Tello-Ortega Karla Esmeralda**. Universidad Autónoma Benito Juárez de Oaxaca
- MH-102** Histone deacetylase-6 inhibition reduces the profibrotic effects of bleomycin and TGF- $\beta$  in mice lung. **María Fernanda Toscano Márquez**. Posgrado en Ciencias Biológicas, UNAM
- MH-103** Prevalence of overweight and obesity in university students of the Chontalpa. **Blanca Estela Trejo Sánchez**. División Académica de Ciencias Básicas, Universidad Juárez Autónoma de Tabasco
- MH-104** Role of the endogenous opioids in the modulation of the expression of opioid grow factor receptor (OGFr) and transient receptor potential vanilloid 1 (TRPV1) in a rat Alkali-Burned cornea model. **Eduardo Emmanuel Valdez-Morales**. Centro de Ciencias de la Salud. Universidad Autónoma de Aguascalientes
- MH-105** Partial characterization of peptide/ proteins with antimicrobial activity in the *Scolopendra viridis* Venom. **Lucero Valladares Cisneros**. Centro de Investigación en Biotecnología, Universidad Autónoma del Estado de Morelos
- MH-106** Inverse correlation between levels of glycosylated hemoglobin and SERCA protein expression levels in patients with type 2 diabetes mellitus. **Jose Gustavo Vázquez-Jiménez**. Universidad Autonoma de Baja California
- MH-107** Advanced glycation end products levels in preeclampsia and their implications in insulin resistance. **Edgar Ricardo Vázquez-Martínez**, Instituto Nacional de Perinatología-Facultad de Química, UNAM
- MH-108** Intermittent Fasting plus Moderate Exercise Decreases Metabolic, Inflammatory and Cardiovascular Alterations Experimental Diabetes Induced. **Adolfo Virgen Ortiz**. University Center for Biomedical Research, University of Colima
- MH-109** Activation of local intracardiac reflexes by mechanical stimuli in the rat heart endocardium. **Sharon Zayuri Zenteno de los Santos**. Institute of Physiology, BUAP
- MH-110** Molecular detection of four common species of Candida from blood cultures. **José Oscar Arturo Hernández Carreón**. Instituto Potosino de Investigación Científica y Tecnológica
- MH-111** Los niveles circulantes de plasmalógenos se asocian con el hígado graso no alcohólico. **Olivares-Arévalo, M.** UNAM-INMEGEN

#### MICROBIOLOGY & VIROLOGY IV

- MV-75** Isolation and purification of Bacillus subtilis bacteriophages in soil samples from

- the state of Nuevo León, Mexico. **Sandra Guadalupe Pérez Martínez.** Universidad Autónoma de Nuevo León
- MV-76** Growth arrest and plasmid copy number control: a proteomic approach. **Ángeles Pérez-Oseguera.** Centro de Ciencias Genómicas-UNAM, Programa de Genómica Evolutiva
- MV-77** Insights into the structure of the viral protein genome-linked (VPg) of members of the *Potyvirus* genus. **Aldo A. Pérez-Montoya.** Biomolecular Diversity Laboratory, CINVESTAV IPN Unidad Monterrey
- MV-78** Neutralizing activity of anti-M1 antibodies against the Influenza A virus in equines from Nuevo León, Mexico. **Claudia Bernardette Plata Hipólito.** Universidad Autónoma de Nuevo León
- MV-79** Identification and characterization of 3-Oxosphinganine reductase in bacteria. **Elva Quiroz-Rocha.** Programa de Ecología Genómica, Centro de Ciencias Genómicas, UNAM
- MV-80** Expression and purification of VP4 structural protein of rotavirus in *E. coli* BL21 bacteria. **Yuliet Ramirez Cintra.** Immunology and Virology Laboratory; Faculty of Biology; Universidad Autónoma de Nuevo León
- MV-81** Characterization of resilient yeast isolated from an agave fermentation process. **Bibiana Rios Galicia.** Centro Nacional de Recursos Genéticos CNRG-INIFAP
- MV-82** Characterization of isolated microorganisms of thermal water of Chignahuapan, Puebla. **David Israel Ríos Vázquez.** Facultad de Ciencias Biológicas. BUAP
- MV-83** Detection of the West Nile Virus NS1 gene in Nuevo León; Mexico. **Alejandro José Rodríguez García.** Immunology and Virology Laboratory; Faculty of Biology, Universidad Autónoma de Nuevo León
- MV-84** Transposition mutagenesis in *Pseudomonas fluorescens* affects pigment production and antagonism towards *Bacillus thuringiensis*. **Norma Elena Rojas Ruiz.** Centro de Investigaciones en Ciencias Microbiológicas. BUAP
- MV-85** Rhizospheric microbial communities in mine tailings, a comparison of cultured and uncultured microbiomes. **Miguel Romero.** Laboratorio de Genómica Ambiental. Departamento de Biología Celular, Facultad de Ciencias UNAM
- MV-86** Identification of Staphylococcus in samples from patients with periodontitis by NGS. **Luis Enrique Romero Cruz.** Universidad Nacional Autónoma de México. FES-Iztacala
- MV-87** Design of a synthetic bacterial consortium to degrade polycyclic aromatic hydrocarbons. **Jaime Rosas Díaz.** Universidad Nacional Autónoma de México Campus Morelos, Instituto de Biotecnología
- MV-88** Study of the role of the proteins Avin34710 and Avin34720 in the metabolism of polyhydroxybutyrate (PHB) in the bacterium *Azotobacter vinelandii*. **Jessica Ruiz Escobedo.** Instituto de Biotecnología / UNAM
- MV-89** Regulation of the expression of microRNAs by the Zika virus during Central Nervous System development. **María E. Santana Román.** Laboratorio de Neuroinmunobiología, Departamento de Medicina Molecular y Bioprocesos, Instituto de Biotecnología, UNAM

- MV-90** Paper of CsrA in the growth of *Bacillus licheniformis* M2-7 in the presence of hydrocarbons. **Laura Iztacihuatl Serrano Ángel**. Laboratorio de Microbiología Molecular y Biotecnología Ambiental, Universidad Autónoma de Guerrero
- MV-91** Do the SPFH-containing proteins affect secretion in *Escherichia coli*? **Lidia Steinemann Hernández**. Instituto de Fisiología Celular, Departamento de Genética Molecular, Instituto de Fisiología Celular, UNAM
- MV-92** Point mutation of the hot-spot E176 in the capsid protein of the Cowpea Chlorotic Mottle Virus decreases its thermal stability. **Alejandra G. Valdez-Lara**. Biomolecular Diversity Laboratory, CINVESTAV IPN Unidad Monterrey
- MV-93** Handrail and turnstiles microbiome of the Mexico City Subway. **Daniela Vargas-Robles**. Universidad Autónoma de Metropolitana, Unidad Cuajimalpa
- MV-94** Overproduction of rhamnolipids in *Pseudomonas aeruginosa* ATCC 9027. **Paola Vázquez-Bueno**. Department of Molecular Biology and Biotechnology, Institute of Biomedical Research, UNAM
- MV-95** ZMP dependent activation of response regulators in *Escherichia coli*. **Oscar Jair Vázquez-Ciros**. Instituto de Fisiología Celular, UNAM
- MV-96** Effect of CsrA of *Bacillus licheniformis* on mobility and ability to grow on various carbon sources. **Isabel Villa Morales**. Laboratorio de Microbiología Molecular y Biotecnología Ambiental, Universidad Autónoma de Guerrero
- MV-97** Preservation of the erythrocyte band 7 integral membrane protein to damage of serine proteases (SPATE) from enteroaggregative *Escherichia coli*. **Jorge Mateo Villaseca Flores**. Departamento de Microbiología y Parasitología. Facultad de Medicina, UNAM
- MV-98** Histopatological characteristics and Bovine Papiloma virus detection in bovine fibropapylomatosis in the northern México region. **Luisa Eugenia Hernández Arteaga**. Universidad Autónoma de San Luís Potosí

## NEUROSCIENCES AND NEUROBIOLOGY II

- NN-22** Effect of D- $\beta$ -hydroxybutyrate in autophagy induction by excitotoxicity. **Luis Angel Montes Ortega**. División de Neurociencias. Instituto de Fisiología Celular. UNAM
- NN-23** Alpha-mangostin attenuates inflammation induced by systemic LPS administration in C57BL/6J mice and ameliorates memory deficits in a transgenic mouse model of Alzheimer's disease. **Miryam Nava Catorce**. Instituto de Investigaciones Biomédicas, UNAM
- NN-24** Effect of ethanol on the expression of Creb and Xbp1 genes in hippocampus of CD1 (ICR) mice and its relation with long-term memory. **Jatziry Daniela Ocampo Ulloa**. Laboratory of Nucleic Acids and Proteins. Faculty of Biological Chemistry Sciences. Autonomous University of Guerrero
- NN-25** Neuronal activity of primary visual cortex is altered in a genetic mouse model of autism (SHANK3). **Ortiz Cruz Carlos Alberto**. Instituto de Fisiología Celular, UNAM
- NN-26** Time-dependent mitochondrial translocation of the glucocorticoid receptor during the consolidation of a procedural memory. **Rogelio Pegueros Maldonado**.

Instituto de Neurobiología, UNAM

- NN-27** Effect of viral maternal infection in structure, function and development of central nervous system. **Uriel Pineda Solís**. Instituto de Biotecnología, UNAM
- NN-28** Expression of the GluN1, GluN2B and GluN3A subunits of the NMDA receptor and zinc transporter-1 in the vestibular system of chicken. **Ana María Ramírez Ramírez**. Instituto de Fisiología. Benemérita Universidad Autónoma de Puebla
- NN-29** A *Malva parviflora*'s fraction ameliorates the spatial learning and memory impairments resulting from neuroinflammation. **Cristina E. Ramírez Serrano**. Instituto de Biotecnología, UNAM
- NN-30** Gender comparison of the anxiolytic like effect of the administration the infusion of Justicia spicigera leaves in Wistar rats. **Ana Raquel Ramos-Molina**. Centro Universitario de los Lagos. Universidad de Guadalajara
- NN-31** Ivermectine and Ethanol Effect Evaluation on the Human P2X4 Receptor. **Naybi Nikte-ha Requejo Mendoza**, Instituto Potosino De Investigación Científica y Tecnológica A.C.
- NN-32** Cortical Persistent Activity In Pyramidal And Interneurons of Layer 5 Motor Cortex "In vitro". **Rosa María Reyes Chaperó**. Instituto de Fisiología Celular. UNAM
- NN-33** Prolactin modifies blood-brain barrier permeability *in vitro*. **Josue Rivera**. Neurobiology Institute, UNAM Campus Juriquilla
- NN-34** Effects of a neonatal stress - immune challenge on the neuroimmune system of the hippocampus and the behavior of adult male rats. **Luis Miguel Saavedra Pimentel**. Universidad Michoacana de San Nicolás de Hidalgo
- NN-35** Tibolone improves memory and reduces beta-amyloid and Tau protein levels in the hippocampus of the triple transgenic mouse for Alzheimer's disease. **Julia Segura-Uribe**. Unidad de Investigación Médica en Enfermedades Neurológicas, CMN SXXI
- NN-36** Antidepressant-like effect of the chronic administration of the infusion of Justicia spicigera leaves on male rats: A comparison with imipramine and fluoxetine. **Cesar Soria-Fregozo**. Centro Universitario de los Lagos. Universidad de Guadalajara
- NN-37** Analysis and identification of allosteric ATP-binding sites in human P2X1 receptors. **Estefania Tejeda-Jaramillo**. Instituto Potosino de Investigación Científica y Tecnológica A.C
- NN-38** A post-mortem proteomic analysis of the prefrontal cortex of individuals with completed suicide and positive toxicology to alcohol. **Jonatan Alexis Torres-Campuzano**. Instituto Nacional de Medicina Genómica
- NN-39** Transcriptional and Chromatin Accessibility of Dopaminergic Differentiation from Induced Pluripotent Stem Cells. **Víctor Treviño**. Escuela de Medicina. Tecnológico de Monterrey
- NN-40** Analysis of differential potencies of secretagogues upon Growth Hormone (GH) regulation in vertebrates. **Valeria Alejandra Urban Sosa**. Institute of Neurobiology, UNAM, Campus Juriquilla
- NN-41** Atomoxetine in neuron-like cells produces oxidative stress and alters mitochondrial function. **Daniela Vázquez González**. Laboratory of Neurosciences, Hospital

Infantil de México Federico Gómez

- NN-42** Effect of M4 on Oxidative Stress in intra hippocampal injected animal model of Alzheimer's disease. **Daniel Miguel Angel Villalobos Acosta**. Escuela Superior de Medicina, IPN

## TOXICOLOGY II

- T-20** Toxicological Evaluation of Textile Wastewater (Denim process). **Anabella Handal Silva**. Posgrado en Ciencias Ambientales. ICUAP BUAP
- T-21** Gestational exposure to particle matter and genic expression changes of enzymes related with Polycyclic Aromatic Hydrocarbon metabolism and DNA repair. **Huitrón-Román, J. A.** Instituto de Investigaciones Biomédicas, UNAM
- T-22** Arsenic distribution in 21 High Schools in Guanajuato State. **Varinia López-Ramírez**. Instituto Tecnológico Superior de Irapuato
- T-23** Fraccionamiento e identificación de la actividad proteolítica del veneno de *Palythoa caribaeorum* (CNIDARIA:ANTHOZOA: ZOANTHARIA). **Martha Mayela Manzano Mora**. Instituto de Química, UNAM
- T-24** Erythropoietin reduces collagen deposition and attenuates renal fibrosis in an experimental model of Chronic Kidney Disease. **Ana Laura Márquez-Aguirre**. Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco
- T-25** Cacalol acetate as inhibitor of the NF- $\kappa$ B pathway. **Beatriz Mora Ramiro**. Ciencias de la Salud. Universidad Autónoma Metropolitana-Iztapalapa
- T-26** Comparison of cytochrome P450 expression in mice under different housing conditions, and parasitosis. **Mouret Hernández Circe Martha Alicia**. Instituto de Investigaciones Biomédicas, UNAM
- T-27** Determination of the anticancer activity of the ethanolic extract of *Equisetum arvense*. **Jesús Antonio Hernández López**. Instituto de Ecología Aplicada, Universidad Autónoma de Tamaulipas
- T-28** Effect of 1,2-Dimethylhydrazine in the kidney and heart of male Wistar rats. **Luis Gerardo Ortega-Pérez**. Facultad de Biología, Universidad Michoacana
- T-29** Toxic activity of secretions from parotid glands of *Rhinella marina*. **Andrea Peñaloza Cabrera**. Centro de Investigación en Biotecnología, UAEM
- T-30** Glutamate Receptor Modulation by Chronic Arsenic Exposure in drinking water. **Wendy Leslie González Alfonso**. Departamento de Medicina Genómica y Toxicología Ambiental, Instituto de Investigaciones Biomédicas, UNAM
- T-31** Chemopreventive effect of *Callistemon citrinus* on colorectal cancer in male Wistar rats. **Patricia Ríos-Chávez**. Facultad de Biología, Universidad Michoacana
- T-32** Effects of pharmacological concentrations of the vitamin biotin in the kidney. **Leticia Riverón-Negrete**. Unidad de Genética de la Nutrición, UNAM/INP
- T-33** Pharmacological effect of biotin on the development of adipose tissue. **Gustavo Rojas-Olave**. Unidad de Genética de la Nutrición. Instituto de Investigaciones Biomédicas, UNAM
- T-34** Bio-guided fractionation of an extract of *Cucurbita ficifolia* Bouche, and effect of some fractions on insulin secretion and GLUT-4 expression. **Wendoline Rosiles**



**Alanis.** Universidad Autónoma Metropolitana – Iztapalapa

- T-35** Participation of HIF-1 in the regulation of pharmacologically induced autophagy in breast and colon tumor cells. **Rebeca Salgado-García.** Instituto Nacional de Ciencias Médicas y de Nutrición Salvador Zubirán, Unidad de Bioquímica
- T-36** Curcumin effective dose against oxidative stress linked with hepatic insulin resistance development by exposure to cadmium. **Victor Enrique Sarmiento-Ortega,** Facultad de Ciencias Químicas, BUAP
- T-37** Extraction and identification of a cardiotoxic fraction of the venom of *Condylactis gigantea* from Mexican Caribbean. **María Vanegas Reza.** Instituto de Química, Dpto. Química de Biomacromoléculas, UNAM

## SIGNAL TRANSDUCTION II

- ST-23** IL-2 induces an increase in the expression of autophagy-related markers in cervical cancer cells. **María del Carmen Lagunas Cruz.** Facultad de Estudios Superiores Zaragoza, UNAM
- ST-24** Maize CycD2;2 and KPR4;2 distribute differentially along maize embryo axe during germination and its location is dependent on sugar and auxins. **Aurora Lara-Núñez.** Facultad de Química, UNAM
- ST-25** Regulation of the expression of SnoN, a Negative Modulator of the TGF-beta pathway, in Hepatocytes. **David Martínez Pastor.** Instituto de Fisiología Celular, UNAM
- ST-26** Effect of IL-2 on the activation and nuclear translocation of STAT5 in cervical cancer cell line SiHa. **Diego Francisco Morelos Laguna.** Facultad de Estudios Superiores Zaragoza, UNAM
- ST-27** Peroxisome and mitochondrial dynamics regulated by Dnm1 are necessary for sexual development in the fungus *Podospora anserine*. **Rafael Navarro Espíndola.** Instituto de Fisiología Celular, UNAM
- ST-28** Steroidogenic activity of fetal Leydig cells in rabbit. **Alexis Paulina Ortega García.** Instituto de Investigaciones Biomédicas, UNAM
- ST-29** *In vitro* studies of Nobiletin on FaDu cell line from hypopharyngeal cancer. **Laura Fabiola Ortiz Miranda.** Facultad de Odontología, UNAM
- ST-30** E5 from HPV16 impairs the increased levels of cell cycle regulators and reverts the transforming state of Ha-Ras expressing cells. **Adolfo Pedroza-Saavedra.** Instituto Nacional de Salud Pública
- ST-31** The GTPase Gpn1 is ubiquitinated by BRCA1. **Griselda Peña-Gómez,** Instituto de Física, Universidad Autónoma de San Luis Potosí
- ST-32** Determination of the indole-3-acetic acid site of action during somatic embryogenesis in *Coffea canephora*. **Ana Odeth Quintana-Escobar.** Centro de Investigación Científica de Yucatán, A.C
- ST-33** Relevance of S-nitrosylation on cell death in reperfused hearts. **Nadia Giovanna Román-Anguiano.** Instituto Nacional de Cardiología
- ST-34** Effect of Luteolin on the FADU cell line in the induction of apoptosis and cell migration. **Rosas Martínez Marisol,** División de Estudios de Posgrado e

- Investigación. Facultad de Odontología. UNAM
- ST-35** Regulation and interaction of Retinoblastoma protein (Rb) by the Mdm2 oncoprotein in genotoxic stress conditions. **Adriana Berenice Rousset Román**. Laboratorio de Interacciones Moleculares y Cáncer. Instituto de Física, UASLP
- ST-36** High doses of IL-2 inhibit the proliferation induced by CD95 in cervical cancer cells. **Itzel Salazar Valencia**. FES Zaragoza, UNAM
- ST-37** Co-expression of PAK1 and its novel target CaMKII $\gamma$  in human breast cancer cell lines and breast tumor samples. **Hector Iván Saldivar-Cerón**. Departamento de Biomedicina Molecular, CINVESTAV IPN
- ST-38** Alteration of the chemosensory system in flies *Drosophila melanogaster* due to the deficiency of the transcriptional factor escargot (esg). **Iván Sanchez Díaz**. Instituto de Biotecnología, UNAM
- ST-39** The peroxisome import receptor dislocation complex restrains peroxisome removal in *Podosopora anserine*. **Fernando Suaste-Olmos**. Instituto de Fisiología Celular, UNAM
- ST-40** Regulation of the BarA/UvrY two component signaling system. **Silvia Fernanda Urias Contreras**, Instituto de Fisiología Celular, UNAM
- ST-41** Novel unique ligands of SmicRACK1 protein from the cnidarian symbiont *Symbiodinium microadriaticum* ssp. *microadriaticum*. **Tania T. Islas-Flores**. Instituto de Ciencias del Mar y Limnología, UNAM
- ST-42** Effect of IL-2 on the secretion of lactate and the NADH/NAD<sup>+</sup> ratio in cervical carcinoma cell line SiHa. **Arturo Valle-Mendiola**, Facultad de Estudios Superiores Zaragoza, UNAM
- ST-43** The adenosine derivative IFC305 inhibits the fibrotic phenotype of cultured activated hepatic stellate cells. **Nora Gabriela Velasco- Loyden**. Instituto de Fisiología Celular, UNAM
- ST-44** Participation of AQP8 in the modulation of metabolic pathways activated by adrenaline in hepatocytes. **María Magdalena Vilchis Landeros**. Departamento de Bioquímica, Facultad de Medicina, UNAM
- ST-45** Identification of a nuclear export signal in the GTPase Npa3. **Tania A. Félix-Pérez**. Instituto de Física, Universidad Autónoma de San Luis Potosí