

**Fifth Meeting on Biochemistry and
Molecular Biology of Bacteria
P r o g r a m**

Chautla, Puebla, México. October 1 - 5, 2017

Sunday, October 1	
11:00 – 18:00	Registration
14:00 – 17:00	Lunch
17:45 – 18:00	Opening Ceremony
18:00 – 19:00	<p>Opening Lecture</p> <p style="text-align: center;">Francisco Bolívar Zapata Biotecnología y los beneficios de los organismos transgénicos Instituto de Biotecnología, UNAM</p> <p>Chair: Dimitris Georgellis</p>
19:00 – 21:00	Welcome Cocktail
Monday, October 2	
7:00 – 9:00	Breakfast
	<p>Oral Session I Chair: Silvia Guzmán Beltrán</p>
9:00 – 9:20	<p>Emergent properties of bacterial interactions in a synthetic community <i>Bernardo Aguilar Salinas</i>, Eugenia Zarza, Luis David Alcaraz, Gabriela Olmedo Álvarez CINVESTAV-IPN Irapuato</p>
9:20 – 9:40	<p>Analysis of a gene cluster of <i>Pseudomonas syringae</i> pv. phaseolicola containing a putative nonribosomal peptide synthetase involved in phaseolotoxin synthesis and resembling a genomic island <i>Selene Aguilera Aguirre</i>, José Luis Hernández Flores, Susana De la Torre Zavala CONACYT-Instituto Tecnológico de Tepic</p>
9:40 – 10:00	<p>Genetic and functional exploration of the BarA periplasmic domain <i>Adrián Fernando Álvarez</i>, Claudia Rodríguez Rangel, Dimitris Georgellis Instituto de Fisiología Celular, UNAM</p>

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10:00 – 10:20	<p>DipM is a protein of <i>Caulobacter crescentus</i> that can recognize differences in the peptidoglycan <i>Thelma Arenas Rodríguez, Aurora Osorio, Sebastián Poggio</i> Instituto de Investigaciones Biomédicas, UNAM</p>
10:20 – 10:40	<p>Molecular and functional analysis of an operon involved in the utilization of the fucosyl-α-1,6-<i>N</i>-acetilglycosamine-asparagine glycoamino acid in <i>Lactobacillus casei</i> BL23 <i>Jimmy E Becerra, Jesús Rodríguez Díaz, Martina Palomino Schätzlein, Luz Adriana Sarmiento, Manuel Zuñiga, Vicente Monedero, María Jesús Yebra</i> Departamento de Biotecnología de Alimentos, IATA-CSIC, Valencia, Spain</p>
10:40 – 11:00	Coffee Break
	<p>Oral Session II. Chair: Mariana Romo Castillo</p>
11:00 – 11:20	<p>The bacteriophage mEp021 and its control on the cell fate: double plaque phenotype in the same progeny <i>Gerson Isaac Caraballo Hernández, Eva Martínez Peñafiel, Noé Hernández Lopez, Omar Alejandro Sepúlveda Robles, Gabriel Guarneros Peña, Luis Yoshio Kameyama Kawabe</i> Departamento de Genética y Biología Molecular, CINVESTAV-IPN, Zacatenco</p>
11:20 – 11:40	<p>Bacteriophage endolysins as new antibacterial strategy: Aquaculture approaches <i>César Salvador Cardona Félix, Lina Angélica Zermeño-Cervantes, Sergio Francisco Martínez-Díaz</i> Instituto Politécnico Nacional</p>
11:40 – 12:00	<p><i>thnR</i> gene regulates the immunity of <i>Bacillus thuringiensis</i> subsp. <i>morrisoni</i> against its own bacteriocin (Thurincin H) <i>Luz Edith Casados Vázquez, José Eleazar Barboza Corona</i> Departamento de Alimentos, Universidad de Guanajuato</p>
12:00 – 12:20	<p>Family II pyrophosphatases from photosynthetic bacteria can hydrolyze free pyrophosphate <i>Heliodoro Celis, Alejandra Sarmina, Claudia Peña Segura.</i> Department of Molecular Genetics, Instituto de Fisiología Celular, UNAM</p>

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12:20 – 12:40	<p>Towards a large-scale comparative systems biology across bacteria: organizational landscape and evolutionary dynamics of the regulatory circuitry <i>Julio Augusto Freyre González, Adrián Isaac Campos González, Carlos Roberto Cruz Maldonado, Juan Miguel Escorcía Rodríguez, Luis Felipe Gutiérrez Mondragón, Marco Antonio Tello Palencia</i> Evolutionary Genomics Program, Center for Genomic Sciences, UNAM</p>
12:40 – 13:00	Coffee break
13:00 – 14:00	<p>Plenary Session I</p> <p style="text-align: center;">Gad Frankel <i>Citrobacter rodentium</i> infection reprogramme metabolism in intestinal epithelial cells <i>in vivo</i> Faculty of Natural Sciences, Department of Life Sciences Imperial College London, United Kingdom</p> <p>Chair: Fernando Navarro García</p>
14:00 – 16:00	Lunch
16:00 – 16:20	<p>Oral Session III. Chair: Gabriel Guarneros</p> <p>Selection of functional quorum sensing systems in <i>Pseudomonas aeruginosa</i> by environmental factors <i>Rodolfo García Contreras, Paulina Castañeda Tamez, Adrián Cazares, Miguel Ángel Saucedo Mora, Berenice Pérez Eretza, Gabriel Guarneros</i> Departamento de Microbiología y Parasitología, Facultad de Medicina, UNAM</p>
16:20 – 16:40	<p>Enhanced Cry1A toxicity from <i>Bacillus thuringiensis</i>, by interaction with Heat Shock Proteins <i>Blanca Inés García Gómez, Alejandra Bravo, Edgar Dantán González, Mario Soberón</i> Instituto de Biotecnología, UNAM</p>
16:40 – 17:00	<p>Characterization of <i>Enterococcus faecium</i> vesiculogenesis. Role of cell wall-targeting antibiotics in vesicle production and cargo modification <i>Mónica A García Solache, Charlene Desbonnet, Louis B Rice</i> Division of Infectious Disease Rhode Island Hospital/Brown University</p>

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17:00 – 18:00	Plenary Session II Gisela Storz The hidden secrets of small genes Division of Molecular and Cellular Biology NICHD, NIH. Bethesda, USA Chair: Miguel Ángel Villalobos
18:00 – 20:00	Poster Session Odd Numbers
20:0 – 21:00	Dinner
21:00 – 23:00	Campfire under the sky

Tuesday, October 3

7:00 – 9:00	Breakfast
9:00 – 9:20	Oral Session IV Chair: José de Jesús Olivares Trejo Novel insights into the regulatory mechanism of substrate secretion in enteropathogenic <i>Escherichia coli</i>. <i>Meztilli O. Gaytán Enríquez, Julia Benítez García, Norma Espinosa y Bertha González Pedrajo</i> Departamento de Genética Molecular, Instituto de Fisiología Celular. UNAM
9:20 – 9:40	Comparative study and differential integration properties of two <i>P. aeruginosa</i> temperate phages of the group <i>F116virus</i> <i>Gabriel Guarneros, Adrián Cazares, Wendy Figueroa, Daniel Cazares.</i> CINVESTAV- IPN Unidad Zacatenco
9:40 – 10:00	Understanding acid tolerance in <i>Rhizobium tropici</i> CIAT 899 <i>Julio Guerrero-Castro, Otto Geiger, Luis Lozano and Christian Sohlenkamp</i> Centro de Ciencias Genómicas UNAM

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10:00 – 10:20	<p>A proposal for the organization of <i>Bacillus subtilis</i> respiratory chain <i>Emma Berta Gutiérrez Cirlos</i>, Tecilli Cabellos Avelar, Ana Paula García García, Gerardo Ignacio Picón Garrido Biomedical Unit. FES Iztacala. UNAM</p>
10:20 – 10:40	<p>The redox state of human macrophages modulates the persistence of <i>M. tuberculosis</i> through Whib3 expression <i>Silvia Guzmán-Beltrán</i>, Omar Morales-Barrientos, Martha Torres Instituto Nacional de Enfermedades Respiratorias “Ismael Cosío Villegas”</p>
10:40 – 11:00	Coffee break

	Oral Session V Chair: Hortencia Silva Jiménez
11:00 – 11:20	<p>Phenotypic plasticity by reaction norms in <i>Bacillus</i> spp. species from wild environments from Cuatro Ciénegas Coahuila desert facing physical environmental factors <i>Enrique Hurtado Bautista</i>, Laura Sánchez Pérez, Diana Fabiola Díaz Jiménez, Diana Guadalupe Tapia García, Gabriela Olmedo Álvarez Laboratory of Molecular Biology and Microbial Ecology - CINVESTAV Unidad Irapuato</p>
11:20 – 11:40	<p>Two essential genes on the secondary chromosome p42e of <i>Rhizobium etli</i> CFN42 participate in cell division <i>Sofía Martínez Absalón</i>, Carmen Guadarrama, Araceli Dávalos, Susana Brom, David Romero Programa de Ingeniería Genómica, Centro de Ciencias Genómicas UNAM</p>
11:40 – 12:00	<p>Characterization of the biofilm formation by <i>Actinobacillus seminis</i>. <i>J. Fernando Montes García</i>, Sergio Vaca, Tomás Villamar, Candelario Vazquez Cruz, Erasmo Negrete Abascal Facultad de Estudios Superiores Iztacala, UNAM</p>
12:00 – 12:20	<p>The mRNA levels of the genes <i>frpB1</i>, <i>frpB2</i> and <i>frpB3</i> of <i>Helicobacter pylori</i> are regulated under different iron sources <i>José de Jesús Olivares Trejo</i>, Cristhian Sánchez Cruz, Marco Antonio González López Posgrado en Ciencias Genómicas, Universidad Autónoma de la Ciudad de México</p>

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12:20 – 12:40	<p>Tracing full biosynthetic pathways in whole-genome sequenced bacterial genomes with a single hit <i>Yagul Pedraza Perez, Luis Ernesto Fuentes Ramírez</i> Centro de Investigación en Ciencias Microbiológicas. ICUAP</p>
12:40 – 13:00	Coffee break
13:00 – 14:00	<p>Plenary III</p> <p style="text-align: center;">Vanessa Sperandio “You’re hot and you’re cold”: neurotransmitters modulation of bacterial virulence gene expression Department of Microbiology and Biochemistry The University of Texas Southwestern Medical Center, USA</p> <p>Chair: Dimitris Georgellis</p>
14:00 – 16:00	Lunch
	<p>Oral Session VI Chair: Marisela Aguirre Ramírez</p>
16:00 – 16:20	<p>Characterization of FlgP a novel protein essential for Fla1 flagellar assembly in <i>Rhodobacter sphaeroides</i>. <i>Caleb Pérez González, Georges Dreyfus, Laura Camarena</i> Instituto de Investigaciones Biomédicas, UNAM</p>
16:20 – 16:40	<p>Evaluation of metabolic and molecular events in <i>Escherichia coli</i> during recombinant protein production with a thermo-inducible system <i>Sara Restrepo Pineda, Carlos Giroshi Bando Campos, Norma A Valdez Cruz, Mauricio A Trujillo Roldán</i> Instituto de Investigaciones Biomédicas, UNAM</p>
16:40 – 17:00	<p>Dynamics and segregation of polyhydroxybutyrate (PHB) granules in <i>Caulobacter crescentus</i> <i>Ana Laura Salinas, Aurora Osorio and Sebastian Poggio</i> Instituto de Investigaciones Biomédicas, UNAM</p>

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17:00 – 18:00	<p>Plenary IV</p> <p style="text-align: center;">Laura Camarena Characterization of the regulatory switch between the two flagellar systems of <i>Rhodobacter sphaeroides</i> Instituto de Investigaciones Biomédicas, UNAM</p> <p>Chair: Otto Geiger</p>
18:00 – 20:00	Poster Session Even Numbers
20:30 – 22:00	Dinner
Wednesday, October 4	
7:00 – 9:00	Breakfast
9:00 – 9:20	<p>Oral Session VII Chair: David Romero Camarena</p> <p>Identification of <i>Ehrlichia canis</i> by PCR in canines captured at the control center of Chihuahua City, México <i>Marcos Javier Sánchez Pérez, Jorge Roberto Benavides Durán, Susana Elvira García Vázquez, Hugo Ramírez Álvarez</i> Laboratory of Virology, Genetics and Molecular Biology, FESC, UNAM</p>
9:20 – 9:40	<p>LysR-type transcriptional regulator family and N-acyl homoserine lactone-type Quorum Sensing system contributes in the regulation of swarming motility and antibiosis in a non-pathogenic <i>Burkholderia gladioli</i> strain <i>Eduardo Seynos García, M Castañeda Lucio, J Muñoz Rojas, L López Pliego, Miguel Villalobos, R Bustillos Cristales, LE Fuentes Ramírez</i> Instituto de Ciencias, Benemérita Universidad Autónoma de Puebla</p>
9:40 – 10:00	<p>Characterization of <i>Salmonella enterica</i> isolates causing bacteremia in Lima, Perú, using multiple typing methods <i>Claudia Silva, Laura Betancor, Coralith García, Lizeth Astacondor, Noemí Hinostrroza, Julieta Bisio, Javier Rivera Campos, Lucía Perezgasga, Victoria Pérez Escanda, Lucía Yim, Francisco García del Portillo, Alejandro Chabalgoity Salmolber CYTED Network† and José L. Puente</i> Departamento de Microbiología Molecular, Instituto de Biotecnología, UNAM</p>

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10:00 – 10:20	<p>Identification and analysis of the <i>nmp</i> gene cluster involved in N-methylpyrrolidone degradation by <i>Alicyclophilus</i> sp. BQ1 <i>Claudia Julieta Solís González, Lilianha Domínguez Malfavón, Itzel Gaytán, Martín Vargas Suárez, Miguel Ángel Cevallos, Luis Lozano, M. Javier Cruz Gómez, and Herminia Loza-Tavera</i> Facultad de Química, UNAM</p>
10:20 – 10:40	<p>A novel alcohol dehydrogenase from N₂-fixing bacteria <i>Martha Elena Sosa-Torres</i> Facultad de Química, UNAM</p>
10:40 – 11:00	Coffee break
	<p>Oral Session VIII Chair: Juan Miranda Rios</p>
11:00 – 11:20	<p>Production of lipopeptide biosurfactants by <i>Bacillus subtilis</i> in solid state fermentation <i>Luisa Marcela Valdés Velasco, Jesús Gerardo Saucedo Castañeda, Lorena Leticia Pedraza Segura y Ernesto Favela-Torres</i> Departamento de Biotecnología. Universidad Autónoma Metropolitana Iztapalapa</p>
11:20 – 11:40	<p>Alkaline effects in <i>Escherichia coli</i> cultivation on recombinant protein production and aggregates formation <i>Norma A. Valdez Cruz, Carlos Cancines Cruz, Alejandro Olvera, Alejandro Alagón, Mauricio A Trujillo Roldán</i> Instituto de Investigaciones Biomédicas, UNAM</p>
11:40 – 12:00	<p>A novel regulator of the two component system CckA-ChpT-CtrA <i>Benjamín Vega Baray, Clelia Domenzain, Aurora Osorio, Sebastián Poggio, Georges Dreyfus, Laura Camarena</i> Instituto de Investigaciones Biomédicas, UNAM</p>
12:00 – 12:20	<p>The genomic basis of resistance and host adaptation in <i>Stenotrophomonas</i> <i>Pablo Vinuesa, Javier Rivera Campos, Luz Edith Ochoa Sánchez, Claudia Torres and Bruno Contreras Moreira</i> Centro de Ciencias Genómicas – UNAM</p>
12:20 – 12:40	<p>Prevalent role of homologous recombination in the repair of doublestrand breaks in the genome of <i>Rhizobium etli</i>. <i>Osam Yáñez, Diana Aguilar, Araceli Dávalos, David Romero</i> Programa de Ingeniería Genómica, Centro de Ciencias Genómicas, UNAM</p>

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12:40 – 13:00	Coffee break
13:00 – 14:00	Plenary Session V Esteban Martínez Developing easy to use genetic tools for (de/re) constructing complex phenotypes in bacteria Centro Nacional de Biotecnología, CSIC. SPAIN Chair: Herminia Loza Tavera
14:00 – 16:00	Lunch
16:00 – 17:00	Plenary Session VI Javier Torres López Emergence of a new phylogeographic group of <i>H. pylori</i> in Latin American mestizos Unidad de Investigación en Enfermedades Infecciosas y Parasitarias IMSS Chair: Fernando Navarro García
17:00 – 17:30	Final Announcements and Closing Ceremony
20:00 – 24:00	Dinner and Dancing

All oral presentations will be held in the Grand Room

All poster presentations will be held in the San Lucas Room

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Odd Poster Presentation: Monday October 2nd

San Lucas Room

Even Poster Presentation: Tuesday October 3rd

1.	Low levels of polar flagellin expression in mature biofilms from <i>Azospirillum brasilense</i>. <i>Acatitla Jácome Iris</i> , Viruega Góngora Víctor I, María Luisa Xiqui Vazquez, Beatriz E Baca, Alberto Ramírez Mata. Centro de Investigaciones en Ciencias Microbiológicas. Benemérita Universidad Autónoma de Puebla
2.	Limited diffusion of OmpA2 in <i>Caulobacter crescentus</i> is determined by its interaction with cell wall and outer membrane. <i>Luis David Ginez Vázquez</i> , Aurora Osorio Franco and Sebastian Poggio Ghilarducci. Instituto de Investigaciones Biomédicas, UNAM
3.	The effect of <i>Thymus vulgaris</i> on the formation of biofilm from uropathogenic <i>Escherichia coli</i> in a needleless system. <i>Luis Felipe Hernández Ramírez</i> , Mariela Díaz Escalona, Estefany Paola Ramos Maya, Rosa María Nava Nolazco, Ángeles Sahian Espino Benítez, Héctor Xochimitl Flores, Germán Rubén Aguilar Gutiérrez, Juan Xicohténcatl Cortés, Carlos Cabrera Maldonado y Marcos Flores Encarnación. Laboratorio de Microbiología Molecular y Celular. Facultad de Medicina. BUAP
4.	The introduction of a gene of a pyruvate kinase of <i>Vibrio cholerae</i> is toxic for <i>Escherichia coli</i>. <i>Zoe Alba Martínez</i> , Carlos Guerrero Mendiola, Leticia Ramírez Silva and Gloria Hernández Alcántara. Departamento de Bioquímica, Facultad de Medicina, UNAM
5.	Characterization of chaperonine (HpGroEL) of <i>Helicobacter pylori</i> which binds iron. <i>Selene Becerril Huesca</i> , Cristhian Sánchez Cruz, José de Jesús Olivares Trejo. Posgrado en Ciencias Genómicas, Universidad Autónoma de la Ciudad de México
6.	Structural stability of the glucose-6-phosphate dehydrogenase from <i>Pseudomonas aeruginosa</i>, provided by its substrate. <i>Edaena Benítez Rangel</i> y Roberto Velasco García. Facultad de Estudios Superiores Iztacala, UNAM
7.	The non-conserved C terminus of the flagellar muramidase (SlfF) is crucial for its localization during flagellar rod formation in <i>Rhodobacter sphaeroides</i>. <i>Mariela García Ramos</i> , Javier de la Mora, Laura Camarena and Georges Dreyfus. Instituto de Fisiología Celular, UNAM
8.	A new player in flagellar system 2 of <i>Rhodobacter sphaeroides</i>. <i>Arely Ivonne Marcos Vilchis</i> , Teresa Ballado, Javier de la Mora, Laura Camarena and Georges Dreyfus. Instituto de Fisiología Celular, UNAM
9.	Structural and molecular characterization of proteins GroEL with insecticidal activity derived from symbiotic bacteria. <i>Abraham Omar Rivera Ramírez</i> , Edgar Dantán González, Blanca Inés García Gómez. Biotechnology Research Center, Autonomous University of the State of Morelos
10.	Characterization of the C-terminal of MotF in <i>Rhodobacter sphaeroides</i>. <i>David Rodríguez Méndez</i> , Clelia Domenzain, Sebastián Poggio, Aurora Osorio and Laura Camarena. Instituto de Investigaciones Biomédicas, UNAM

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11.	Advances in the structural determination of the membrane-bound metallo enzyme alcohol dehydrogenase metalloenzyme from <i>Gluconacetobacter diazotrophicus</i>. <i>Sarmiento Pavía Pedro David</i> , Rodríguez Cortés Lizbeth Anaid, Sánchez Ostría Malinali, Solano Peralta Alejandro, Sosa Torres Martha Elena. Facultad de Química, UNAM
12.	Probing the Heme Centers of Alcohol Dehydrogenase from N₂-Fixing <i>Gluconacetobacter diazotrophicus</i> with NO. Alejandro Solano Peralta, Juan Pablo Saucedo Vázquez, Saúl Gómez Manzo, Abigail González Valdez, Peter M.H. Kroneck, Martha E. Sosa Torres. Departamento de Química Inorgánica y Nuclear, Facultad de Química. UNAM
13.	Inhibition by Pyridoxal Phosphate of the enzyme glucose-6-phosphate dehydrogenase from <i>Pseudomonas aeruginosa</i>. <i>María Fernanda Templos López</i> , Edaena Benítez Rangel y Roberto Velasco García. Facultad de Estudios Superiores Iztacala, UNAM
14.	Study of the p6, p7, and p8 reverse and p2, p5 and p4 forward promoters of the <i>leuO</i> gene in <i>Salmonella typhi</i>. <i>Gloria Alejandra Altamirano Cruz</i> , Grecia López Méndez, Edmundo Calva Mercado, Marcos Fernández Mora, Instituto de Biotecnología. UNAM
15.	Protein dosage of the <i>lldPRD</i> operon depends on processing of the primary transcript. <i>Lidia Esmeralda Angel Lerma</i> , Enrique Merino Pérez, Adrián Fernando Álvarez, Dimitris Georgellis. Departamento de Genética Molecular, Instituto de Fisiología Celular. UNAM
16.	A Two-Component System Involved in <i>Streptomyces coelicolor</i> Morphogenesis. <i>Erick Eligio Arroyo Pérez</i> , Gabriela González Cerón, Luis Servín González. Instituto de Investigaciones Biomédicas. UNAM
17.	HilD and PhoP independently regulate the expression of <i>grhD1</i>, a novel gene required for <i>Salmonella enterica</i> serovar Typhimurium invasion of host cells. <i>María Magdalena Banda Hernández</i> , Rubiceli Manzo Durán, Fernando C. Soncini, Francisco García del Portillo and Víctor Humberto Bustamante Santillán. Departamento de Microbiología Molecular. Instituto de Biotecnología. UNAM
18.	Study of expression of <i>pvdS</i> and <i>csbC</i> genes in <i>Azotobacter vinelandii</i>. <i>Thalía Barrientos Millán</i> , Liliana López Pliego, Miguel Castañeda Lucio. Centro de Investigaciones en Ciencias Microbiológicas. BUAP
19.	Identification of two novel genes of phage ϕPs56 that exclude heterologous superinfection of <i>Pseudomonas aeruginosa</i>. <i>Marco Antonio Carballo Ontiveros</i> , Adrián Cazares, Luis Kameyama, and Gabriel Guarneros CINVESTAV- IPN Unidad Zacatenco
20.	Transcriptional response in <i>Salmonella enterica</i> serovar Typhimurium strains with different susceptibility to peroxide stress. <i>Marcos Fernández Mora</i> , Sergio Jahir Flores Lozano, Verónica Jiménez Jacinto, Alejandro Sánchez Flores, Edmundo Calva Mercado, Instituto de Biotecnología, UNAM
21.	PerA, the activator of the bundle-forming pilus operon of enteropathogenic <i>Escherichia coli</i>, interacts with the transcriptional machinery. <i>Fabiola González Lara</i> , Abraham Medrano López, María Lilia Cedillo Ramírez, José L. Puente, Ygnacio Martínez Laguna, J. Antonio Ibarra García, Cristina Lara

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	Ochoa. Escuela de Biomedicina, BUAP
22.	AT-rich region in <i>argK</i> promoter is required to expression of <i>argK</i> gene, encoding the phaseolotoxin resistant ornithine carbamoyltransferase in <i>Pseudomonas syringae</i> pv. <i>Phaseolicola</i>. <i>Laura Hernández Soriano</i> José Luis Hernández Flores Lizeth Guardado Valdivia Jaime Bravo Selene Aguilera Aguirre. CONACYT Instituto Tecnológico de Tepic
23.	The <i>CtrA</i> regulon in <i>Rhodobacter sphaeroides</i>. <i>José Hernández Valle</i> , Aurora Osorio, Sebastian Poggio, Georges Dreyfus, and Laura Camarena. Departamento de Biología Molecular, Instituto de Investigaciones Biomédicas, UNAM
24.	InvF acts as a classical regulator of <i>sopB</i> in <i>Salmonella enterica</i> serovar Typhimurium. Luis E. Romero González, Elias Cortés Acosta, Elisa del R. Talancón Sánchez, Lourdes Villa Tanaca, Víctor H. Bustamante, and <i>J. Antonio Ibarra García</i> . Laboratorio de Genética Microbiana, Escuela Nacional de Ciencias Biológicas, IPN
25.	The <i>Citrobacter rodentium</i> <i>ecp</i> fimbrial operon is positively regulated by the putative phosphodiesterase CreR. <i>María Inés Isidro Coxca</i> , Verónica I. Martínez Santos, Andrés Escalera, Abraham Medrano, Gustavo Caballero, Alejandra Vázquez y José Luis Puente. Departamento de Microbiología Molecular, Instituto de Biotecnología, UNAM
26.	The c-di-GMP signaling protein MucR is necessary for cyst formation but not for alginate synthesis in <i>Azotobacter vinelandii</i>. <i>Iliana Chantal Martínez</i> , Josefina Guzmán, Soledad Moreno, Miguel Cocotl, Guadalupe Espín & Cinthia E. Núñez. Instituto de Biotecnología, UNAM
27.	Phenotypic evaluation and construction of <i>abrB</i> overexpression strains of <i>Bacillus thuringiensis</i>. <i>Shirley E. Martínez Tolibia</i> , Silvia Luna Suárez, Miguel A. Villalobos López, Astrid M. Lozano Goné, Rosina Cabrera Ruiz, V. Eric López y López. Centro de Investigación en Biotecnología Aplicada. Instituto Politécnico Nacional
28.	Expression of the small RNAs <i>crcZ</i> and <i>crcY</i> determine the degree of carbon catabolite repression in the nitrogen fixing bacterium <i>Azotobacter vinelandii</i>. <i>Marcela Martínez Valenzuela</i> , Josefina Guzmán Aparicio, Soledad Moreno, Guadalupe Espín and Cinthia Núñez. Departamento de Microbiología Molecular, Instituto de Biotecnología, UNAM
29.	LC-MS/MS proteomic analysis of the <i>BarA/SirA</i> and <i>Csr</i> regulons in <i>Salmonella enterica</i> serovar Typhimurium. <i>Jessica Nava Galeana</i> and Víctor H. Bustamante Santillán. Departamento de Microbiología Molecular, Instituto de Biotecnología, UNAM
30.	Functional analysis of MAP3373c recombinant of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> in MAP Zinc regulon. <i>Carmen Y. Nieto Morín</i> , Keyla L. Armenta Rojas, José A. Gutiérrez Pabello, Lilia A. Hurtado Ayala, Mirna C. Brito Perea, Esteban Hernández Guevara, Jesus I. De Leon Ramirez, Víctor A. Reyes Villegas, Karen N. Vega Feria, Bertha Landeros Sánchez. Universidad Autónoma de Baja California
31.	Characterization of the <i>Arabidopsis thaliana</i>-PGPR interaction under conditions of salinity stress. <i>Rubén Palacio Rodríguez</i> , Gisela Muro Pérez,

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	Jorge Sáenz Mata. Laboratory of Microbial Ecology. Universidad Juárez del Estado de Durango
32.	Genetic tools for study of wheat colonization by strains of <i>Azospirillum brasilense</i> tagged with mCherry fluorescent protein. Miguel Angel Ramales Pacheco, María Luisa Xiqui-Vázquez, Carlos Daniel Cordero-Rivera, Francisco Maya Malerva, Alberto Ramírez-Mata and Beatriz Eugenia Baca. Centro de Investigaciones en Ciencias Microbiológicas, BUAP
33.	Cloning and purification of BfpI and BfpJ minor pilins of the enteropathogenic <i>Escherichia coli</i> BFP pilus in expression vector pET-3a. <i>María Patricia Reyes Bravo</i> , Daysy Hernández Acosta, Margarita M. De La Paz Arenas Hernández, Claudia F. Martínez De La Peña. Centro de Investigaciones en Ciencias Microbiológicas, ICUAP. BUAP
34.	Regulatory effect of the histidine kinase RetS over the expression of the Rsm-sRNAs in <i>Azotobacter vinelandii</i>. <i>Jimena Itzel Reyes Nicolau</i> , Liliana López Pliego, Miguel Castañeda Lucio. Laboratorio de Genética Molecular Microbiana ICUAP. Benemérita Universidad Autónoma de Puebla
35.	Characterization of the Avin 08930 gene involved in polyhydroxybutyrate and alkylresorcinol synthesis in <i>Azotobacter vinelandii</i>. <i>Karen Ameyally Rodríguez Martínez</i> , María Soledad Moreno León, Guadalupe Espín Ocampo. Departamento de Microbiología Molecular, Instituto de Biotecnología, UNAM
36.	Functional analysis of the <i>Rhizobium etli</i> OmpR/PhoB regulators. <i>Susana Rodriguez</i> , David Correa Galeote, Dimitris Georgellis, David Zamorano Sánchez and Lourdes Girard. Programa de Dinámica Genómica, Centro de Ciencias Genómicas, UNAM
37.	The response regulator DctR is involved in the repression of cckA mediated by C4-dicarboxylic acids in <i>Rhodobacter sphaeroides</i>. <i>Verónica Jazmín Sánchez Ortiz</i> , Aurora Osorio, Sebastián Poggio, Georges Dreyfus, Laura Camarena Mejía. Instituto de Investigaciones Biomédicas, UNAM
38.	Study of the effect of (p)ppGpp, H-NS and LRP on the <i>leuO</i> gene promoters in <i>Salmonella enterica</i> serovar Typhi. <i>Diego Sánchez Popoca</i> , Marcos Fernández Mora, Andrea Teresa Téllez Galicia, Edmundo Calva Mercado. Instituto de Biotecnología. UNAM
39.	Quorum sensing inhibition using antisense RNAs in <i>Pseudomonas aeruginosa</i>. <i>Martín Paolo Soto Aceves</i> . Miguel Cocotl Yañez. Gloria Soberón Chávez. Instituto de Investigaciones Biomédicas, UNAM
40.	Expression of the <i>phoH</i> ancestral gene was adapted to be controlled by the HilD virulence regulator in <i>Salmonella enterica</i> serovar Typhimurium. <i>Marcos Antonio Valdespino Díaz</i> and Víctor Humberto Bustamante Santillán. Instituto de Biotecnología, UNAM
41.	RNA-seq profiling reveals new elements involved in palladium reduction in <i>Geobacter sulfurreducens</i>. <i>Katy Juárez López</i> , Alberto Hernández Eligio, Aurora M. Pat Espadas, Leticia Vega Alvarado, Jesús Manuel Huerta Amparán and Francisco J. Cervantes. Instituto de Biotecnología, UNAM
42.	The extracellular electron transfer is controlled by the GSU1771 repressor a member of the SARP family in <i>Geobacter sulfurreducens</i>. Alberto Hernández Eligio, Víctor Hugo Almaza Rebollar, Yoatzin Domínguez Fernández

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	and Katy Juárez López. Instituto de Biotecnología, UNAM
43.	Ihfα-2 is part of the IHF complex that controls the transcription of relevant genes involved in electron transfer in <i>Geobacter sulfurreducens</i>. <i>Jesús Manuel Huerta Amparán, José Alberto Hernández Eligio, Katy Juárez López.</i> Instituto de Biotecnología, UNAM
44.	Regulation of arginase expression in <i>Sinorhizobium meliloti</i> 1021. <i>Alejandra Arteaga Ide and Michael F. Dunn.</i> Centro de Ciencias Genómicas, UNAM
45.	The c-di-GMP turnover protein MucG affects the alginate process in <i>Azotobacter vinelandii</i>. <i>C. Leonel Ahumada Manuel, David Zamorano, Josefina Guzmán, Guadalupe Espín, Fitnat Yildiz, and Cinthia E. Núñez.</i> Departamento de Microbiología Molecular, Instituto de Biotecnología. UNAM
46.	Analysis of PHB production in an heterologous model. <i>Itzel Anaya Benítez, María de los Ángeles Martínez Martínez, Lucía Soto Urzua, Luis Javier Martínez Morales.</i> Centro de Investigaciones en Ciencias Microbiológicas. Instituto de Ciencias. Benemérita Universidad Autónoma de Puebla
47.	Polyamines are required for normal growth, motility and exopolysaccharide production in <i>Sinorhizobium meliloti</i> Rm8530. <i>Victor A. Becerra Rivera and Michael F. Dunn.</i> Programa de Genómica Funcional de Procariotes, Centro de Ciencias Genómicas. UNAM
48.	Regulation of Polyamine Biosynthesis in <i>Sinorhizobium meliloti</i>. <i>Michael F. Dunn, Victor Antonio Becerra, Alejandra Arteaga, Ed Bergstrom and Jane Thomas Oates².</i> Programa de Genómica Funcional de Procariotes. Centro de Ciencias Genómicas. UNAM
49.	Large antagonistic activity of <i>Burkholderia cenocepacia</i> TAtI-371. <i>Paulina Estrada de los Santos, Fernando Uriel Rojas Rojas, Erika Yanet Tapia García, David López Sánchez, José Antonio Ibarra García.</i> Escuela Nacional de Ciencias Biológicas, IPN
50.	Distinct distribution of lipids between outer and inner membrane of <i>Sinorhizobium meliloti</i>. <i>Juan Daniel García Ledesma, Lourdes Martínez-Aguilar, Otto Geiger.</i> Centro de Ciencias Genómicas. UNAM
51.	Biosynthesis and functions of zwitterionic membrane lipids and their hydroxylated derivatives in the opportunistic pathogen <i>Burkholderia cenocepacia</i> J2315. <i>Napoleón González Silva, Otto Geiger, Ramón I. Arteaga Garivay, Juan J. Valdez Alarcón, Maritza R. García García, Yesica S. González Torres and Blanca Z. Villagran de la Mora.</i> Universidad de Guadalajara
52.	Genetic analysis of the synthesis of phosphatidylinositol mannosides in <i>Streptomyces coelicolor</i>. <i>Angélica Palacios Adalid, Mario Sandoval Calderón, Christian Sohlenkamp, Gabriela González Cerón & Luis Servín González.</i> Departamento de Biología Molecular y Biotecnología. Instituto de Investigaciones Biomédicas. UNAM
53.	Isolation and Analysis of Membrane Microdomains in <i>Escherichia coli</i>. <i>José Enrique Guzmán Flores, Adrián Fernando Álvarez, Marina Gavilanes Ruiz, Sebastian Poggio Ghilarducci, Dimitris Georgellis.</i> Departamento de Genética Molecular, Instituto de Fisiología Celular. UNAM
54.	Gene Expression of the PEP-Pyr-Oxalo node enzymes in <i>Streptomyces coelicolor</i> M145. <i>Llamas Reneé, Takahashi Toshiko and María Elena Flores</i>

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	Instituto de Investigaciones Biomédicas. UNAM
55.	Role of <i>Bacillus cereus</i> A1 ChrA protein in the interaction with hexavalent chromium. <i>Jesús Fernando López Vázquez</i> , Fernando Santos Escobar, Mario Pedraza Reyes, J. Félix Gutiérrez Corona. Departamento de Biología, DCNE, Universidad de Guanajuato
56.	Qualitative expression of the TCA genes and four regulation genes involved in carbon metabolism in <i>Streptomyces coelicolor</i> M145. <i>Martínez Marysol</i> , Lopez Josué, Takahashi Tóshiko and María Elena Flores. Biología Molecular y Biotecnología, Instituto de Investigaciones Biomédicas. UNAM
57.	Effect of co-inoculation of PGPR on <i>Arabidopsis thaliana</i> under conditions of abiotic stress. <i>María Magdalena Montoya Jáquez</i> , Rubén Palacio Rodríguez, Benjamín Nava Reyes, Jorge Sáenz Mata. Laboratorio de Ecología Microbiana. Facultad de Ciencias Biológicas, Universidad Juárez del Estado de Durango
58.	Isolation and characterization of a crude oil-degrading <i>Pseudomonas aeruginosa</i> from the Gulf of Mexico. <i>Luis Felipe Muriel Millán</i> , José Luis Rodríguez Mejía, Elizabeth Ernestina Godoy Lozano, Diana Ximena Sahonero Canavesi, Wendy Itzel Escobedo Hinojosa, Alejandro Estradas Romero, Humberto Sánchez Taxis and Liliana Pardo López. Consorcio para la Investigación del Golfo de México CIGoM. Instituto de Biotecnología. UNAM
59.	Sphingolipid biosynthesis and function in bacteria. <i>Jonathan Padilla Gómez</i> , Daniela A. García Soriano, Diana X. Sahonero Canavesi, Sebastian Poggio Ghilarducci, Isabel M. López Lara, and Otto Geiger. Centro de Ciencias Genómicas. UNAM
60.	Evaluation of the antimicrobial effect of gallium maltolate in clinical isolates of <i>Pseudomonas aeruginosa</i>. <i>Pérez Eretza Fabiola Berenice</i> , García Contreras Rodolfo. Departamento de Microbiología y Parasitología, Facultad de Medicina. UNAM
61.	Role of <i>Pseudomonas aeruginosa</i> alkaline protease during nutritional stress. <i>Jimena Ramírez Peris</i> , Yael Gonzalez Tinoco, Yuki Hoshiko, Paulina Castañeda Tamez, Toshinari Maeda, Georges Dreyfus, Jinatee Lee, Berenice Perez Eretza, Thomas K. Wood, Rodolfo García Contreras. Department of Microbiology and Parasitology, Faculty of Medicine, UNAM
62.	Removal kinetics of dicophol in liquid culture by soil microorganisms from uncontaminated agricultural soil. <i>Adriana Ramírez Vargas</i> , Héctor Julio García Flores, Martha Julieth Pérez Morales. Facultad de Ciencias Biológicas. BUAP
63.	Characterization of Plant Growth Promoting Rhizobacteria isolated of <i>Prosopis</i> spp. <i>Blanca Patricia Ramos Acosta</i> , Benjamín Nava Reyes, Jaime Sánchez Salas, Anselmo González Torres, Jorge Sáenz Mata. Universidad Autónoma Agraria Antonio Narro
64.	Study of the role of the proteins Avin34710 and Avin34720 in the metabolism of polyhydroxybutyrate (PHB) in the bacterium <i>Azotobacter vinelandii</i>. <i>Jessica Ruiz Escobedo</i> , Josefina Guzmán, Libertad Adaya, Alma Reyes González, Guadalupe Espín, Daniel Segura González. Instituto de Biotecnología. UNAM

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65.	Single-step anaerobic down stream fluidized bed bioreactor for waste water treatment. <i>Mauro Aldahir Sánchez Jiménez</i> , José Manuel Ricardez Rojas, Arantza Giovanna Solano Guillen, Sheila Karime Serra Luna , Edmee Nacif Lira, Mirthza Aguilar Ye. Facultad de Ciencias Químicas Campus Coatzacoalcos. Universidad Veracruzana
66.	Molecular analysis of the tyrosine phosphatase, BCAL2200 of <i>Burkholderia cenocepacia</i>. <i>Rebeca Sánchez Rodríguez</i> , Juan F. Ramos Garcés, Gloria M. González González; Bertha González Pedrajo; Angel Andrade. Departamento de Microbiología, Facultad de Medicina, Universidad Autónoma de Nuevo León
67.	Transcriptional responses to riboflavin biosynthesis and uptake in the riboflavin opportunistic bacteria <i>Vibrio cholerae</i>. <i>Ignacio Sepúlveda Cisternas</i> , Luis Lozano, Alexia Torres, Andrés Fuentes Flores, and Víctor Antonio García Angulo. Escuela de Biotecnología, Universidad Mayor, Campus Huechuraba, Santiago, Chile
68.	Mutation in a diguanylate cyclase of PGPR <i>Azospirillum brasilense</i> Sp245 causes an alteration in biofilm formation. <i>Daniel Sierra Cacho</i> , Alberto Ramírez Mata, Ma. Luisa Xiqui Vázquez and Beatriz E. Baca. Centro de Investigaciones en Ciencias Microbiológicas, Instituto de Ciencias, Benemérita Universidad Autónoma de Puebla
69.	Resonant acoustic mixing technology for the production of recombinant proteins in <i>Escherichia coli</i>. <i>Mauricio A. Trujillo Roldán</i> , Sara Restrepo Pineda, Greta I. Reynoso Cereceda, Alejandro Olvera, Alejandro Alagón, Norma A. Valdez Cruz. Instituto de Investigaciones Biomédicas, UNAM
70.	Characterization of cyanobacteria from microbialites along a depth gradient in the Alchichica crater lake. <i>Bernardo Águila Salgado</i> , Rocío Jetzabel Alcántara Hernández, Gustavo Montejano Zurita, Luisa Isaura Falcón Álvarez. Instituto de Ecología UNAM
71.	A metagenomic approach to survey nitrogen transformations in a shallow aquifer within an agricultural zone. <i>Eduardo Javier Aguilar Rangel</i> , Rocío Jetzabel Alcántara Hernández, Blanca Lucía Prado Pano, Soledad Vázquez Murrieta & Bruno Manuel Chávez Vergara. Instituto de Geología, UNAM
72.	Comparative genomic analysis of pathogenic <i>Staphylococcus epidermidis</i> isolated from nosocomial infections. <i>Patricia Bustos</i> , Enrique Meléndez Herrada, Rosa Isela Santamaría, Rubén Morelos Ramírez, Irma Martínez Flores, Vanessa González, Xavier Soberón, Roberto Cabrera Contreras and Víctor González. Centro de Ciencias Genómicas, UNAM
73.	Is it just a question of time? <i>Acinetobacter haemolyticus</i>, an emerging pathogen. <i>Semiramis Castro Jaimes</i> , Patricia Volkow Fernández, Santiago Castillo Ramírez, Miguel A. Cevallos Gaos. Programa de Genómica Evolutiva, Centro de Ciencias Genómicas. UNAM
74.	Functional annotation of the genome of virulent <i>Avibacterium paragallinarum</i> serotype A Strain AVPG5. <i>Zaira Guerrero González</i> , Sergio Vaca, Erasmo Negrete Abascal, María Patricia G. Sánchez Alonso, Candelario Vázquez Cruz. Centro de Investigaciones en Ciencias Microbiológicas, Instituto de Ciencias, Benemérita Universidad Autónoma de Puebla
75.	Bacterial communities associated to insect intestine. <i>Gustavo Hernández</i>

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	<i>Guzmán</i> , Mónica Hernández Apolinar, Manuel Darío Salas Aráiza, Domancar Orona Tamayo, Dalia Rodríguez Ríos, Gertrud Lund, José Eleazar Barboza Corona, Juan Caballero Pérez. Departamento de Alimentos. DICIVA-CIS Universidad de Guanajuato
76.	The mutation in diguanylate cyclase D from <i>Azospirillum brasilense</i> Sp 245 decreased biofilm formation. <i>Roxana Lara Oueilhé</i> , Denisse Ramírez Mendoza, María Luisa Xiqui Vázquez, Alberto Ramírez Mata and Beatriz Eugenia Baca. Centro de Investigaciones en Ciencias Microbiológicas, Benemérita Universidad Autónoma de Puebla
77.	Assembly of the genome and functional analysis of the annotation of <i>Klebsiella</i> sp., to identify genes that confer anticoccidial activity. <i>Lizeth Lozada Mendoza</i> , Nancy Rivera Gómez, Ramón Suarez Rodríguez, Edgar Dantán Gonzáles. Centro de Investigaciones en Biotecnología. Laboratorio de Estudios Ecogenómicos. UAEM
78.	'<i>Candidatus Mycoplasma haemobos</i>' strain INIFAP01, the first hemotrophic Mycoplasma identified in Mexico: Genome assembly and comparative genomics analysis. <i>Fernando Martínez Ocampo</i> , Rosa Estela Quiroz Castañeda, Edgar Dantán González, Luis Fernando Lozano Aguirre Beltrán, Armando Hernández Mendoza. Centro de Investigación en Biotecnología. UAEM
79.	Comparative study of human versus <i>Caenorhabditis elegans</i> microRNAome. <i>Juan Miranda Ríos</i> , Martha Elva Pérez Andrade, Roberto Carlos Martínez Padilla. Unidad de Genética de la Nutrición, Instituto de Investigaciones Biomédicas, UNAM e Instituto Nacional de Pediatría
80.	Analysis of multi-resistance to antibiotics of bacterium <i>Escherichia coli</i> BOq isolated from poultry farms. <i>Abimael Moran Vazquez</i> , Edgar Dantán González. Biotechnology Research Center. Autonomous University of the State of Morelos
81.	Antibiotic Susceptibility Pattern of <i>Stenotrophomonas</i> Species Isolated from Soil and Sewage in Mexico. <i>Temidayo Oluyomi Elufisan</i> , Miguel Angel Villalobos López, Xianwu Guo. Centro de Biotecnología Genómica, Instituto Politécnico Nacional
82.	Spa-typing of <i>Staphylococcus aureus</i> isolated from fresh cheeses. <i>Javier Oviedo Boyso</i> , Marco Antonio Romero Durán, Carlos Alberto Galicia Silva, Juan José Valdez Alarcón. Facultad de Medicina Veterinaria y Zootecnia, Universidad Michoacana de San Nicolás de Hidalgo
83.	Generation of the mutant of the <i>fur</i>₁₃₉₈ gene from <i>Gluconacetobacter diazotrophicus</i> PAL5. <i>María Sofía Pardo Reyes</i> , Lucía Soto Urzúa, Luis Javier Martínez Morales, Beatriz Eugenia Baca. Centro de Investigación en Ciencias Microbiológicas, Benemérita Universidad Autónoma de Puebla
84.	Comparative analysis nitrogen fixing bacteria associated with <i>Acacia</i> sp from the mining tailings of Huautla, Morelos. Rebeca Pérez Martínez, Edgar Dantán González, María de Lourdes Girard Cuesy, Alma Ruth Reyes González, Ma. Laura Ortiz Hernández. Laboratory of Ecogenomic Studies, Center for Research in Biotechnology (CeIB), UAEM
85.	Genomic characterization of the bacterial strain <i>Escherichia coli</i> BOq with

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	anticoccidial activity. <i>Daniel Rivera Mendoza, Edgar Dantán González.</i> Biotechnology Research Center, Autonomous University of the State of Morelos
86.	Comparative Genomics and Biochemical-Molecular Characterization of a New <i>Pseudomonas alcaligenes</i> from Gulf of Mexico Involved in the Hydrocarbons Degradation. <i>Rodríguez Mejía José Luis, Muriel Millán Luis Felipe, Godoy Lozano E. Ernestina, Sánchez Catalán Silver R., Sahonero Canavesi Diana Ximena, Escobedo Hinojosa Wendy I., Segovia Forcella Lorenzo P., Gutiérrez Ríos Rosa M., Trejo Hernández María del R., Sánchez Flores Fidel A. and Pardo López Liliana.</i> Consorcio de Investigación del Golfo de México CIGoM. Instituto de Biotecnología. UNAM
87.	Structural genomics and pathogenicity of isolated bacteria associated with the entomopathogenic nematode <i>H. indica</i> MOR03. Rosalba Salgado Morales, Deyanira Pérez Morales, Edgar Dantán González. Autonomous University of the State of Morelos, Biotechnology Research Center
88.	Metagenomic analysis of a stable microbial consortium capable to grow in a polyether polyurethane varnish reveals adaptive capabilities to metabolize xenobiotic compounds. <i>Ayixón Sánchez Reyes, Ivan Liachko, Shawn Sullivan, and Herminia Loza Tavera.</i> Departamento de Bioquímica, Facultad de Química, UNAM
89.	Genomic diversity and local adaptation of bacteriophage communities associated with bean-nodulating bacteria. <i>Rosa I. Santamaría, Jannick Van Cauwenberghe, Soledad Juárez, Patricia Bustos, Irma Martínez, and Víctor González.</i> Centro de Ciencias Genómicas, UNAM
90.	Search for genes related to resistance to desiccation in sensitive bacteria through metagenomic studies. <i>Daniel Vazquez Sandoval, Sonia Flores Calderon, América Paulina Rivera Urbalejo, Jesús Muñoz Rojas, Verónica Quintero Hernández.</i> Grupo Supervivencia y Ecología de Microorganismos (GSEM), Laboratorio de Ecología Molecular Microbiana (LEMM), Centro de Investigaciones en Ciencias Microbiológicas (CICM), Instituto de Ciencias, Benemérita Universidad Autónoma de Puebla
91.	Evaluation of Antibiotic Resistance, BLEE Production and Biofilm formation in Two <i>E. coli</i> strain collections Isolated of patients with ITU in the State of Puebla. <i>Claudia Ixtapan Tejero, Margarita MP. Arenas Hernández, Guadalupe Jiménez, Patricia Lozano Zaráin.</i> Licenciatura en Biomedicina, Facultad de Medicina. Eje de Microbiología, ICUAP BUAP
92.	PvdQ as Quorum quencher in <i>Pseudomonas aeruginosa</i> isolated from burned patients in a third level hospital. <i>Luis Esaú López Jácome, Rodolfo García Contreras, Paulina Castañeda Tamez, Rafael Franco Cendejas, Fabiola Berenice Pérez Eretza, Georgina Garza Ramos.</i> Laboratorio de Infectología. Centro Nacional de Investigación y Atención a Quemados. Instituto Nacional de Rehabilitación. Facultad de Medicina. UNAM
93.	Correlation between high bacterial load and the presence of the O122 pathogenicity island in enteropathogenic <i>Escherichia coli</i> isolated from children with diarrhea. <i>Samantha Maldonado Puga, Meza Segura Mario, Lopez Saucedo Catalina, Zaidi Mussaret Bano, Campos Freddy Daniel, Estrada Garcia Teresa.</i> Molecular Biomedicine Department. CINVESTAV IPN

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94.	GEIs as genomic markers for multi-infection events by <i>Pseudomonas aeruginosa</i>. Flor Anaís Medrano Aguilar, Roxana Malpica Calderón, María del Rosario Morales Espinosa, Gabriela Delgado Sapién, José Luis Melendez, Marisela Aguirre Ramírez. Laboratorio de Biología Celular y Molecular de Bacterias. Instituto de Ciencias Biomédicas. Universidad Autónoma de Ciudad Juárez
95.	Evaluation of the interaction between <i>Fusarium oxysporum</i> and <i>Pseudomonas aeruginosa</i> isolated in vanilla beans (<i>Vanilla planifolia</i>). Zayra Guadalupe Pérez Orozco, Juan José Luna Guevara, Miguel A. Villalobos, Jorge Campos Contreras, Victor M Salazar Rojas, Ma. Lorena Luna Guevara. Colegio de Ingeniería en Alimentos, Facultad de Ingeniería Química, Benemérita Universidad Autónoma de Puebla
96.	Construction of <i>tsh</i> mutant of avian pathogenic <i>Escherichia coli</i> and evaluation of their pathogenicity. Iliana Noemí Quiroz Serrano, Luz Elena Vidales Rodríguez, Jesús Guzmán Moreno, Sergio Sánchez R, Rosa María Ramírez Santoyo. Unidad Académica de Ciencias Biológicas, Universidad Autónoma de Zacatecas.
97.	Relationship between lipid rafts and the type III secretion system of EPEC. Lidia Steinemann Hernández, José Enrique Guzmán Flores, Elizabeth García Gómez, Norma Espinosa, Bertha González Pedrajo, and Dimitris Georgellis. Instituto de Fisiología Celular. UNAM
98.	Expanding the protein interaction network of EscQ, a sorting platform component of the type III secretion system in enteropathogenic <i>Escherichia coli</i>. María del Pilar Torres Reyes, Eduardo Soto Guzmán, Norma Espinosa Sánchez and Bertha González Pedrajo. Instituto de Fisiología Celular, UNAM
99.	Expression analysis of the Diguanylate Cyclase Cdg-A from <i>Azospirillum brasilense</i> Sp7 in the transition from the motile to the sessile life style. Zaira Melina López Juárez, María L. Xiquí, Beatriz Eugenia Baca, and Alberto Ramírez Mata. Centro de Investigaciones en Ciencias Microbiológicas, Benemérita Universidad Autónoma de Puebla
100.	Characterization of the small regulatory RNA RsmY belonging to the Rsm system in <i>Azotobacter vinelandii</i>. Lilita López Pliego, Cinthia Nuñez, Guadalupe Espín, Miguel Castañeda. Centro de Investigaciones en Ciencias Microbiológicas, Instituto de Ciencias, Benemérita Universidad Autónoma de Puebla
101.	Generation and characterization of double mutants in <i>rsm</i>-sRNAs genes in <i>Azotobacter vinelandii</i>. Araceli Rosales Cruz, Lilita López Pliego, Miguel Castañeda Lucio. Laboratorio de Genética Molecular Microbiana, Instituto de Microbiología, BUAP
102.	ZTP dependent autophosphorylation of response regulators in <i>Escherichia coli</i>. Oscar Jair Vázquez Ciro, Adrián Fernando Alvarez and Dimitris Georgellis Instituto de Fisiología Celular. UNAM
103.	Identification of a putative operon involved in chemotaxis from <i>Azospirillum brasilense</i> Sp245. María Luisa Xiquí Vázquez, Carlos Daniel Cordero Rivera, Tomás Francisco Maya Malerva, Alberto Ramírez Mata and

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	Beatriz Eugenia Baca. Centro de Investigaciones en Ciencias Microbiológicas, Benemérita Universidad Autónoma de Puebla
104.	Effect on the inhibition of Quorum-dependent virulence factors in <i>P. aeruginosa</i> by pyrazino-isoquinolines. Almeida Villegas Jorge Angel, Arroyo Mejía María Fernanda, García Contreras Rodolfo. Departamento de Microbiología y Parasitología, Facultad de Medicina, UNAM
105.	Effect of various solvents in addition of curcumin on the inhibition of virulence factors dependent on quorum sensing in <i>Pseudomonas aeruginosa</i>. Arroyo Mejía María Fernanda, García Contreras Rodolfo. Departamento de Microbiología y Parasitología, Facultad de Medicina UNAM
106.	Conjugative transfer of rhizobial plasmids under diverse environmental conditions and during symbiosis. Luis Alfredo Bañuelos Vazquez, Gonzalo Torres Tejerizo, Laura Cervantes de La Luz, Maria de Lourdes Girard Cuesy, David Romero Camarena and Susana Brom Klanner. Centro de Ciencias Genómicas. UNAM
107.	Methylotrophic bacteria isolated from <i>Neobuxbaumia macrocephala</i> mainly possess <i>soxB</i> and metabolize methanol in presence of Ce^{3+} and Ca^{2+}. María del Rocío Bustillos Cristales, Ivan Corona Gutierrez, Miguel Castañeda Lucio, Carolina Águila Zempoaltécatl, Eduardo Seynos García, Ismael Hernández Lucas, Jesús Muñoz Rojas, Liliana Medina Aparicio, and Luis Ernesto Fuentes Ramírez. Instituto de Ciencias, Benemérita Universidad Autónoma de Puebla
108.	Production and purification of human beta defensin (HβD3) with antimicrobial activity against strains isolated from diabetic foot. Alondra Gabriela Callejas Yañez, Iván Arenas Sosa, Gerardo Corzo Burguet. Instituto de Biotecnología. UNAM
109.	Study of the adaptation strategies of <i>Salinibacter ruber</i> to the conditions of Europa's ocean. María Cristina Cardona Echavarría and Sandra I. Ramírez Jiménez. Centro de Investigaciones Químicas, Universidad Autónoma del Estado de Morelos
110.	Selection of <i>Pseudomonas aeruginosa</i> quorum sensing by pyocyanin. Paulina Castañeda Tamez and Rodolfo García-Contreras. Departamento de Microbiología y Parasitología, Facultad de Medicina UNAM
111.	Two plasmids from the bean-nodulating <i>Sinorhizobium fredii</i> strain GR64 regulate each other's conjugation genes. Laura Cervantes De la Luz, Gonzalo Torres Tejerizo, Eunice López Fuentes, Fabiola Miranda Sánchez and Susana Brom Klanner. Programa de Ingeniería Genómica, Centro de Ciencias Genómicas. UNAM
112.	S1 protein promotes the translation of A- or U-rich downstream mRNAs. Cifuentes Goches Juan Carlos, Guarneros Peña Gabriel, Hernández Sánchez Javier. Departamento de Genética y Biología Molecular. Centro de Investigación y de Estudios Avanzados. IPN
113.	Self-similarity in bacterial regulatory networks: insights into a novel organizational property conserved during evolution. Carlos R. Cruz Maldonado and Julio A. Freyre Gonzalez. Group of Regulatory Systems Biology, Evolutionary Genomics Program. UNAM
114.	Novel plant growth promoters affects the microorganism populations

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	present in rhizosphere. <i>Juan Carlos Díaz Becerra</i> , Luis Alberto Morales Mora, Héctor Aragón Duncan, Fabrizio De Jesús Tapia Hernández, Norma Elena Rojas Ruiz Carlos Alberto Contreras Paredes. Licenciatura Multidisciplinaria en Biotecnología. BUAP
115.	Characterization and–production of Acyl Homoserine Lactones (AHLs) produced by <i>P. aeruginosa</i> isolated from cured vanilla beans. <i>Esmeralda Escobar Muciño</i> , Ma. Lorena Luna Guevara, Antonino Baez Rogelio, Miguel Castañeda Lucio, Ma. Elena Ramos Cassellis, Margarita Ma. de la Paz Arenas Hernández. Centro de Investigaciones Microbiológicas, Benemérita Universidad Autónoma de Puebla
116.	Using the organizational principles of regulatory networks to identify global regulators in bacteria. <i>Juan Miguel Escorcia Rodríguez</i> and Julio Augusto Freyre González. Regulatory Systems Biology Research Group, Evolutionary Genomics Program, Center for Genomic Sciences. UNAM
117.	Searching for proteins from <i>Alicyclophilus</i> sp. BQ1, a bacterium capable to attack polyurethane, with capacity to break the urethane group. <i>Jacqueline Fuentes Jaime</i> , Martín Vargas Suárez, and Herminia Loza Tavera. Departamento de Bioquímica, Facultad de Química, UNAM
118.	Characterization of isolated microorganisms of extreme environment with enzymatic capacity. <i>Pilar Vianey García Miranda</i> , Liliana Dafne Avila Almaraz, Itzamná Baqueiro Peña, Candelario Vázquez Cruz, Ma. Patricia Georgina Sánchez Alonso, Norma Elena Rojas Ruiz. Licenciatura en Biotecnología. Benemérita Universidad Autónoma de Puebla
119.	Assessing bacterial consortia activity against polyurethane contamination <i>Itzel Gaytán</i> , Martín Vargas Suárez, and Herminia Loza Tavera. Departamento de Bioquímica, Facultad de Química, UNAM
120.	Detection of <i>Listeria monocytogenes</i> from samples of ham by PCR technique. <i>Sharon Gutiérrez Falcón</i> , Gloria León Tello, Juan Carlos Benítez Serrano, Laura Martínez Pérez, Carlos Cabrera Maldonado. Facultad de Ciencias Químicas, Departamento de Microbiología. BUAP
121.	Genome assembly of <i>Alicyclophilus</i> sp. BQ1, a polyurethane degrading bacterium, by bioinformatics and PCR. <i>Jey Hernández</i> , Luis Lozano, Miguel Ángel Cevallos, Otoniel Maya Lucas, Jaime García Mena, Herminia Loza Tavera Departamento de Bioquímica, Facultad de Química, UNAM
122.	The community dynamics of oligotrophic bacteria in a microcosm environment. <i>África Islas Robles</i> , Román Zapién Campos, Valeria Souza Saldivar, Gabriela Olmedo Álvarez. CINVESTAV Unidad Irapuato
123.	Analysis of Lsr2 proteins in <i>Streptomyces</i>. <i>Yersaín Ely Keller de la Rosa</i> , Gabriela González Cerón & Luis Servín González. Instituto de Investigaciones Biomédicas. UNAM
124.	Bacterial diversity in the hemiparasitic oak/mistletoe association. <i>Roberto Carlos Llano Villarreal</i> , Jesús Muñoz Rojas, Ricardo Carreño López, Verónica Quintero Hernández, José Antonio Munive Hernández, Edgar Dantán González, Rocío Bustillos Cristales and Luis E. Fuentes. Lab. Ecología Molecular Microbiana, Centro de Investigaciones en Ciencias Microbiológicas, Instituto de Ciencias, Benemérita Universidad Autónoma de Puebla

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125.	The production of novel tRNA “halves” is stimulated by translation arrest due to deficiency of an amino acylable Trna. <i>Rodolfo Montes Cruz, Eva Jacinto Loeza, and Gabriel Guarneros. CINVESTAV, Unidad Zacatenco</i>
126.	DEAD-box RNA helicases in <i>Bacillus subtilis</i> as a case study of evolution of duplicate genes. <i>González Gutiérrez José Antonio, Díaz, Diana Fabiola, Olmedo Álvarez Gabriela. CINVESTAV IPN, Unidad Irapuato</i>
127.	Immunoinformatics approach to determine the immunogenic role of enolase from <i>Haemophilus influenza</i>, as a vaccine candidate. <i>Yesenia Osorio Aguilar, Patricia Lozano Zarain, María Cristina González Vázquez, Alejandro Carabarin Lima and Rosa del Carmen Rocha Gracia. Posgrado en Microbiología, Centro de Investigaciones en Ciencias Microbiológicas, BUAP</i>
128.	Co-infections Between Microorganisms That Cause Cervicovaginal Pathologies. <i>Berenice Parra Ortega, Stephanie Michelle de Paz Flores, Selene Silva Pérez, Daniela Rodríguez Muñoz, Abigail Pérez Valdespino, Elba Reyes Maldonado, Ma. Guadalupe Aguilera Arreola. National School of Biological Sciences of the National Polytechnic Institute.</i>
129.	The <i>repABC</i> plasmids replicate with a theta mechanism. <i>Angeles Pérez Oseguera, Ramón Cervantes Rivera and Miguel Angel Cevallos. Centro de Ciencias Genómicas, UNAM</i>
130.	Tolerance of <i>Prosopis laevigata</i> plants and rhizobia symbionts to heavy metals exposure. <i>Verónica Ramírez, Primavera López, Antonino Baez, Jesús Muñoz, José Luis Contreras, Javier Martínez, José Antonio Munive. Centro de Investigaciones en Ciencias Microbiológicas, Instituto de Ciencias, BUAP</i>
131.	RAMbio mixer as a high oxygen supply shake flask system alternative: culture of <i>Azotobacter vinelandii</i>. <i>Greta I. Reynoso Cereceda, María S. Córdova Aguilar, Norma A. Valdez Cruz, Mauricio A. Trujillo Roldán. Departamento de Biología Molecular y Biotecnología, Instituto de Investigaciones Biomédicas. UNAM</i>
132.	Growth of halophilic and psychrophilic bacteria in environmental conditions similar to the Europa’s ocean. <i>Daira Guadalajara Rubio Mendoza and Sandra Ignacia Ramírez Jiménez. Centro de Investigaciones Químicas, Universidad Autónoma del Estado de Morelos</i>
133.	"Resistance to quinolones in commensal and enteropathogenic <i>Escherichia coli</i> in a human-animal health interface model". <i>Guillermina Sánchez Martínez, Celia Mercedes Alpuche Aranda, Elsa Tamayo Legorreta, Doris Arellano Quintanilla, Victor González Zúñiga, Soledad Juárez, Ulises Garza Ramos, Humberto Barrios Camacho, Alejandro Sánchez and Jesús Silva Sánchez. National Institute of Public Health. Center for Research in Infectious Diseases</i>
134.	Phenotypic characterization of non-toxigenic <i>Clostridium difficile</i> isolated from patients in Mexico. <i>Sanchez Rojas M, Camorlinga Ponce M, and Torres J, Romo Castillo M. Facultad de Ciencia y Tecnología, Universidad Simón Bolívar</i>
135.	Prospection of hydrocarbonoclastic marine bacteria toward Polycyclic Aromatic Hydrocarbons present on the Baja California Coast. <i>Hortencia Silva Jiménez, Ileana Sarahi Ramos Mendoza, Cynthia L. Araujo Palomares.</i>

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136.	Spatiotemporal regulation of the BarA/UvrY two component signaling system. <i>Silvia Fernanda Urias Contreras, Archana Pannuri, Tony Romeo, Adrián Fernando Álvarez, and Dimitris Georgellis.</i> Instituto de fisiología Celular. UNAM
137.	Characterization of the biodegradative activity of bacterial consortia able to grow in polyurethane varnish as the sole carbon source. <i>Martín Vargas Suárez, Vianney Fernández Cruz, and Herminia Loza Tavera.</i> Departamento de Bioquímica, Facultad de Química. UNAM
138.	Green synthesis of silver nanoparticles using a <i>Bacillus subtilis</i> strain with overexpressed nitrate reductase gene. <i>Gilberto Velázquez Juárez, Ruben Godínez López, Lorena Pelayo Arreola, Adalberto Zamudio Ojeda.</i> Departamento de Química. CUCEI. Universidad de Guadalajara
139.	Modulating the Phenotype and the Membrane Properties of Bacterial Cells by Combinatorial Engineering of Ornithine Lipids. <i>Miguel Ángel Vences Guzmán, Wendy Itzel Escobedo Hinojosa, Christian Sohlenkamp.</i> Centro de Ciencias Genómicas. UNAM
140.	<i>Pseudomonas stutzeri</i> A1501 and PQQ. Mechanism for plant growth promotion?. <i>Bett Carolina Vera Cardoso, Marcos Flores Encarnación, Vianey Marín Cevada, Jesús Muñoz Rojas, José Antonio Munive Hernández, Analilia Arroyo Becerra, Ricardo Carreño López.</i> Centro de investigaciones en Ciencias Microbiológicas, Instituto de Ciencias. BUAP
141.	Isolation of Bacterial Strains from Soils Affected by Salinity and Analysis of their Potential use as Biofertilizers in Common Bean and Maize . <i>Miguel Angel Villalobos López, Andrea Salvador Muñoz, Lorena Jaquelin Gómez Godínez, Lourdes Girard Cuesy, and Analilia Arroyo Becerra.</i> Centro de Investigación en Biotecnología Aplicada. Instituto Politécnico Nacional.