

Poster Presentation

SYSTEM ID	AUTHOR NAME	ABSTRACT TITLE	PANEL SITE	TEMÁTICA
Bioinformática y Biocomputación / Bioinformatics and Biocomputation				
(ID:104)	Alvarez	Computational optimization for signal processing and identification in metabolomics studies based on mass spectrometry	Pst-01	Bioinformática y Biocomputación Bioinformatics and Biocomputation
(ID:117)	Botero, Osorio, Gonzalez, Pinzon-Velasco	Finding and filling gaps in metabolic networks through the 'g2f' R package	Pst-02	
(ID:118)	Osorio, Botero, Gonzalez, Pinzon-Velasco	exp2flux: Convert Gene EXPression Data to FBA FLUXes	Pst-03	
(ID:141)	Giraldo Torres, Segura Giraldo,...	Electrophysiological characterization of cognitive processes in the development of a motor task	Pst-04	
(ID:190)	Marulanda	CINEMATIC MODEL OF COMPLETE AND PINCER GRIPS OF THE HUMAN HAND	Pst-05	
(ID:194)	López, Ruíz, Castaño	DEVELOPMENT OF A TWO-DIMENSIONAL ANATOMICAL MODEL WITH REALISTIC MEASUREMENTS OF LACTIFEROUS CONDUIT OF HUMAN MAMMARY GLAND LACTATION FOR THE STUDY OF DUCTAL CARCINOMA IN SITU	Pst-06	
Modelamiento y Simulación: Predictiva y Aplicada / Modeling and Simulation: Predictive and Applied				
(ID:126)	Martinez, López-Kleine, Reyes	Graphing genomes in 2D, applications of multivariate statistics on the genomic composition	Pst-07	Modelamiento y Simulación: Predictiva y Aplicada Modeling and Simulation: Predictive and Applied
(ID:62)	Carbajal-Tinoco, Granados-Ramírez,...	A coarse-grained model of circular dichroism	Pst-08	
(ID:79)	Pinzón-Reyes, Sierra, Flórez, Rueda,...	DIRECTED EVOLUTION THROUGH DNA SHUFFLING: AN HEURISTIC APPROXIMATION	Pst-09	
(ID:200)	Orozco-Ugarriza, Pedroza-Bedoya,...	A computational approach to molecular docking and ADME/Tox property of Murrayanina and enzyme phospholipase A2	Pst-10	
(ID:238)	Murgas, Martin	Development of a method for the inference of genes regulatory networks from time and specific data integration	Pst-11	
(ID:86)	Suarez	Implementation of a Mixed Integer Linear programming approach to establish de novo synthesis routes of antioxidants derived from the fermentation of Theobroma cacao seeds	Pst-12	
Ómica Vegetal, Descriptiva y Aplicada / Omics in plants, Descriptive and Applied				
(ID:51)	Diaz-Riaño	Identification of differentially expressed genes in foliar tissue of Theobroma cacao under presence of Cadmium	Pst-13	Ómica Vegetal, Descriptiva y Aplicada Plant Omics, Descriptive and Applied
(ID:76)	Bolivar, Caris-Maldonado, Molina,...	Panorama de los transcriptomas de Cannabis sativa por medio de métodos bioinformáticos	Pst-14	
(ID:84)	Arcila Galvis, Arango Isaza, Arias,...	The evolution of Mycosphaerellaceae mitochondrial genomes: Key insights in their molecular biology	Pst-15	
(ID:115)	Rodríguez Cabal, Franco-Sierra,...	Transcriptome of Plukenetia volubilis reveals important genes in the Polyunsaturated Fatty Acid pathways during seed maturation	Pst-16	
(ID:127)	López-Alvarez, Mosquera-Rendón,...	Reconstructing the pan-genome of Ralstonia solanacearum sensu lato and its applications in agriculture	Pst-17	
(ID:143)	Orozco-Arias	Worldwide co-occurrence analysis of 17 species of the genus Brachypodium using data mining	Pst-18	
(ID:146)	Orozco-Arias	Parallan: Parallel Analyzer and Classifier of LTR Retrotransposons. Application to study lateral transfer among plant genomes	Pst-19	
(ID:153)	Carmona	Production and characterization in silico of the enzyme Hidrolasa papayae	Pst-20	
(ID:180)	Pineda	Design of plasmids for CynD expression in Arabidopsis thaliana via A. tumefaciens	Pst-21	
(ID:213)	Trujillo Posada, Bertel, Maldonado	A METHOD FOR IN-SILICO GENERATION OF SIMULATED SEGREGANT POPULATIONS IN PLANT BREEDING PROGRAMS OF ALLOTETRAPLOID SPECIES	Pst-22	
(ID:220)	García navarrete	evolution of genomic resources in Lima beans (Phaseolus lunatus L.) for evolutionary studies and future breeding programs	Pst-23	
(ID:223)	Céspedes Giraldo, Betancur Pérez	Development of a bioinformatic pipeline for reconstruction of evolutionary histories using mtDNA from 15 species of orchids Epidendroideae	Pst-24	
Metagenómica, Ambiente y Biotecnología / Metagenomics, Environment and Biotechnology				
(ID:56)	Chaves	ANÁLISIS BIOINFORMÁTICO DE SECUENCIAS NO CODIFICANTES EN METAGENOMAS: UNA REVISIÓN ACTUALIZADA	Pst-25	Metagenómica, Ambiente y Biotecnología Metagenomics, Environment and Biotechnology
(ID:119)	Botero, Lopez, Crisanco, Alvarez	BIOPROSPECTING: CHALLENGES AND OPPORTUNITIES FOR BIODIVERSITY STUDIES USING COMPUTATIONAL BIOLOGY APPROACHES	Pst-26	
(ID:305)	Bolaños	The importance of the bioinformatic predictions of the putative genes of enzymes for possible technological and industrial developments from microorganism associated to extreme Colombian environments.	Pst-27	
(ID:121)	Serrano-Bermudez, Perez-Mancilla,...	Finding the metabolic potential of solventogenic Clostridium butyricum isolated from Colombian	Pst-28	
(ID:178)	López Zuluaga	COMPARISON OF BIOINFORMATIC METAGENOMICS ASSEMBLY TOOLS	Pst-29	
(ID:55)	Ramirez	Diagnóstico de la apropiación de la Biotecnología en la industria Colombiana	Pst-30	
(ID:110)	Alvarez Yela, Alvarez Silva,...	Metagenomic study at dynamic state to analyze the influence of agricultural activities in the structure and metabolic functionality of soil ecosystems at the Parque Nacional de los Nevados in Colombia	Pst-31	
(ID:154)	Mestanza, Figueroa-Galvis, G. Torres,...	Exploring the microbial functional potential from the Guajira's mangrove rhizosphere	Pst-32	
(ID:187)	Mosquera-Rendón, López-Alvarez,...	Metagenomics analysis of microbial community changes in Fusarium wilt-infected banana crops from Colombia	Pst-33	
(ID:189)	Alvarez-Yela, Noreña Puerta,...	Exploration of microbial diversity of marine ecosystems at the Seaflower Biosphere Reserve using metagenomics	Pst-34	
(ID:227)	Niño Camacho	EFFECT OF THE MANAGEMENT AND USE OF THE GROUND (CONVENTIONAL VS AGROECOOLOGY) ON THE FUNCTION OF THE MICROBIAL COMMUNITY IN TWO FARMS VALLE DEL CAUCA	Pst-35	
(ID:106)	Hernández	Bacterial diversity of a ruminal sample fractionated using a sucrose gradient	Pst-36	

(ID:131)	Rocha	Hydroxylated Naftilchalcone derivatives as possible inhibitors of the polyphenol oxidase protein of the lulo (<i>Solanum quitoense</i> Lam.) Castilla variety.	Pst-37	
Ómicas, Biodiversidad y Bioprospección / Omics, Biodiversity and Bioprospection				
(ID:108)	Gonzalez Muñoz, Mosquera Rendon,...	Transcriptional profiling of the coral <i>Acropora tenuis</i> (Cnidaria: Scleractinia) throughout early developmental stages: insights into the gastrulation process in a basal metazoan	Pst-38	Ómicas, Biodiversidad y Bioprospección Omics, Biodiversity and Bioprospection
(ID:135)	Medina, Arenas, Ochoa, Delgado	In silico identification of antimicrobial and antitumoral peptides in the transcriptome of <i>Bolitoglossa ramosi</i>	Pst-39	
(ID:139)	Iiscano martinez, Arenas, Delgado	Transcriptomic for peptides identification from <i>Hypsiboas pugnax</i> skin	Pst-40	
(ID:155)	Romero Murillo, Icaza, Quezada, Orrego	Mitogenome annotation of <i>Argopecten Purpuratus</i> reveals the presence of <i>atp8</i> gene: Use of Bioinformatics tools for protein modeling and functional identification	Pst-41	
(ID:172)	MORENO, Cordoba, Caro Quintero, Reyes...	Detection of genetic variants of <i>Anaplasma marginale</i> in a bovine blood metagenome infected with hemoparasites.	Pst-42	
(ID:191)	Sánchez Bermúdez, Franco-Sierra,...	Automated routine for vertebrate species identification with nanopore data.	Pst-43	
(ID:196)	Erazo, Rosero, Mejía, Calderon, Castillo	STATUS OF CURRENT GENETIC VARIATION OF <i>Diglossa albilatera</i> and <i>Diglossa lafresnayii</i> (BIRDS: THRAUPIDAE) IN TWO BIOGEOGRAPHIC PROVINCES (ANDEAN AND ANDEAN-AMAZON) OF THE NARIÑO DEPARTMENT	Pst-44	
(ID:230)	Arenas, delgado	De novo reference transcriptome of <i>Bolitoglossa vallecula</i> (Caudata:Plethodontidae)	Pst-45	
(ID:231)	Arenas, Garza - Garcia, delgado	In silico analysis of Three Finger Protein Superfamily members in salamanders <i>Bolitoglossa</i> sp. (Caudata: Plethodontidae)	Pst-46	
(ID:64)	Noreña	Colombia, an unknown diversity in the era of Big Data	Pst-47	
(ID:216)	Mejía Bedoya, Corredor Rodríguez,...	Bioinformatics reconstruction on the metabolic network of <i>Saccharomyces cerevisiae</i> to modeling the metabolim of D-galacturonate for ethanol production in silico	Pst-48	
(ID:70)	Borbón-García	Revealing the composition and metabolic potential of the gut microbiome of Andean Bears from 16S rDNA data: Application into ex-situ conservation plans	Pst-49	
Bioinformática de Virus: Descripciones y Métodos / Virus Bioinformatics: Description and Methods				
(ID:33)	Arango Rodríguez	Implementación de reconocimiento de interacciones entre dominios del virus GBV-C por medio de herramientas bioinformáticas	Pst-50	Bioinformática de Virus: Descripciones y Métodos
(ID:184)	Becerra Sandoval, Moreno Tovar	Prediction of mimicked liner motifs used by viruses to enter the human cell	Pst-51	
(ID:242)	Castillo	Bioinformatic and phylogenetic analysis of the L1 protein of papillomavirus in Colombian Bovines.	Pst-52	Virus Bioinformatics: Description and Methods
(ID:243)	Orozco-Ugarriza, Olivo-Martínez,...	In silico evaluation of antiviral activity of Nimbin from <i>Azadirachta Indica</i> against of dengue virus envelope protein	Pst-53	
(ID:246)	Botero-Rodríguez	Computational tracing of protein and ncRNA epitovirome of Dengue virus.	Pst-54	
Diversidad Bacteriana, Mecanismo, Infección y Ciencias Ómicas / Bacterial Diversity, Mechanisms, Infection and Omics Sciences				
(ID:123)	López, Forero Rodríguez	Computational modeling of intestinal bacterial composition in relation to Parkinson's disease	Pst-55	Diversidad Bacteriana, Mecanismo, Infección y Ciencias Ómicas Bacterial Diversity, Mechanisms, Infection and Omics Sciences
(ID:129)	Duque Aldana, Restrepo Montoya, Pino,...	Some preliminary results on whole genome typing of <i>Mycobacterium</i> spp.	Pst-56	
(ID:133)	TORO NAVARRO, Pinilla-Mendoza,...	A refined genome scale metabolic model of <i>Streptomyces clavuligerus</i> as a tool for metabolic target identification	Pst-57	
(ID:134)	Pinilla-Mendoza, Toro-Navarro,...	Comparative transcriptomic analysis of <i>Streptomyces clavuligerus</i> grown under different culture media conditions	Pst-58	
(ID:152)	Solano, Pino, Robledo	variability of toxin-antitoxin systems in <i>Mycobacterium tuberculosis</i> lineages	Pst-59	
(ID:206)	Franco-Sierra, Arteaga-Figueroa, Alvarez	Application of Oxford Nanopore sequencing data in bacterial genomics shows significant improvement in genome reconstruction	Pst-60	
(ID:210)	Castaño, Corredor	Two components regulatory system genes from pathogens Gram-negative bacteria associated with colistin resistance.	Pst-61	
(ID:218)	Pino, Niño	Topological Data Analysis for Gene Expression Network Modules Identification in <i>Mycobacterium tuberculosis</i>	Pst-62	
Parasitos y Bioinformática / Parasites and Bioinformatics				
(ID:20)	Quiguánás	Modelamiento por Homología y Análisis Estereoquímico de la Proteína Hipotética PFDG_00307 de <i>Plasmodium falciparum</i> Dd2	Pst-63	Parasitos y Bioinformática Parasites and Bioinformatics
(ID:67)	Buitrago-López	In silico identification and description of hypothetical proteins related with adhesion in intestinal parasites: <i>Cyclospora cayetanensis</i> , <i>Cryptosporidium parvum</i> , y <i>Giardia assemblage A and B</i> .	Pst-64	
(ID:102)	GARCIA LOPEZ	"Proteínas homologas a PD1-L1 y PD1-L2 humanas en <i>Toxoplasma gondii</i> "	Pst-65	
(ID:114)	Hernandez, Marquez, Molina, Gomez,...	In silico study of molecules derived from the nucleus 4-thiazolidinone with anti- <i>Toxoplasma gondii</i> activity.	Pst-66	
(ID:148)	Velasco velasquez, Velasco...	STRUCTURAL MODELING AND FUNCTIONAL ANALYSIS OF ROP4 PROTEIN OF <i>Toxoplasma gondii</i>	Pst-67	
(ID:156)	Valencia, Acosta, Molina, Gomez	Computational Study of the Structure and Function of the <i>Toxoplasma gondii</i> SRS12B (TGGT1_321480) Protein.	Pst-68	
Ómicas, Enfermedad y Salud Humana / Omics, Disease and Human Health				
(ID:36)	Orjuela Rodríguez	Filogenia molecular de subfamilias proteicas de canales transportadores de potasio voltaje dependientes e identificación de blancos para investigaciones oncológicas.	Pst-69	Ómicas, Enfermedad y Salud Humana / Omics, Disease and Human Health
(ID:41)	Cardona-Londoño, Medina-Salcedo,...	Analysis of Gene expression profiles associated with neuroinflammatory pathways in Colombian patients with Alzheimer's disease	Pst-70	
(ID:48)	Gaitán, Gaitán, Tamayo, López, Bermudez	Differential expressed genes in low and high grade gliomas: characterizing signaling networks involved in cancer progression.	Pst-71	
(ID:95)	Velez Segura, Rojas Romero, León Guzmán	Exomic and clinical data management using Django	Pst-72	

(ID:125)	Villada Ramos	Structural and functional prediction of the calcium dependent pancreatic cytosolic phospholipase A2 protein present in Rattus norvegicus	Pst-73	Ómicas, Enfermedad y Salud Humana Omics, Disease and Human Health
(ID:136)	Medina	Conserved Protein-Ligand Interactions in Human CDK Family	Pst-74	
(ID:147)	Pulido, Ramirez, Robledo, Correa, Pulido	In silico determination of the relevance of mutual exclusivity and concurrency patterns on the identification of driver genes from cancer public data	Pst-75	
(ID:169)	Garcia	IDENTIFICATION OF GENETIC VARIANTS THROUGH WHOLE EXOMIC SEQUENCING IN A PATIENT WITH DISORDER OF SEXUAL DEVELOPMENT 46, XY.	Pst-76	
(ID:173)	Alarcón	ESTUDIANDO EL BLOQUEO ELECTROSTÁTICO POR CA+2 EL HEMICANAL DE CONEXINA 26 HUMANA: UNA APROXIMACIÓN DESDE LA BIOLOGÍA COMPUTACIONAL	Pst-77	
(ID:188)	Velarde Hoyos	Genetic variation in the human CYP2C19 subfamily in Colombian population	Pst-78	
(ID:215)	Godoy Corredor, Lopez Kleine, Perdomo...	Statistical challenges in the integrated analysis of different sets of gene expression data for the understanding of lung carcinogenesis	Pst-79	
(ID:228)	Bascur	The IDH1 and IDH2 cancerous mutants lose their inhibition because they have a different binding site than the wild types	Pst-80	