Instituto Nacional de Investigación en Salud Pública INSPI

Dr. Leopoldo Izquieta Pérez

Ministerio de Salud Pública

PROGRAM

3rd International & Interdisciplinary Workshop on Mathematical Modeling, Ecology, Evolution, Health, Challenges and Opportunities in Latin America

Quito, Ecuador. July 18 - 22, 2016

Secretaría de Educación Superior, Ciencia, Tecnología e Innovación

IREV

ASU Arizona State University

Faculty of Medicine

Universidad de los Andes Facultad de Ciencias

BIOMAC

Mode Mat

UDLA Universidad de las Américas

MONDAY, JULY 18

Location: Auditorium 503-EPN

08:00-09:00	REGISTRATION	Hall Entrance
09:00- 10:00	"Mathematical Modelling and Public Health Policy Design: It is a Two Way Street"	Babak Pourbohloul BRITISH COLUMBIA CENTRE FOR DISEASE CONTROL, CANADA
10:00-10:35	WELCOMING	Organizers
10:35-11:00	*COFFEE BREAK*	
11:00-12:00	"Challenges and Opportunities in modeling communicable and vector borne diseases"	Carlos Castillo-Chávez ARIZONA STATE UNIVERSITY, USA
12:00 – 13:00	"Interdisciplinary Research in Mathematical Modeling"	Padmanabhan Seshaiyer GEORGE MAISON UNIVERSITY, USA
13:00-14:00	*LUNCH*	
14:00-18:30	**WORKSHOP 1**: Molecular Biology: Viral detection in mosquitoes ***LOCATION:*** *Molecular Biology Laboratory- INSPI*	Susan Holechek ARIZONA STATE UNIVERSITY, USA
14:00-17:00	**WORKSHOP 2**: "Inverse problems in Mathematics" **LOCATION:** *Auditorium 503-EPN*	Doris Hinestroza UNIVERSIDAD DEL VALLE, COLOMBIA

TUESDAY, JULY 19

Location: Auditorium 503-EPN

08:00 – 9:00	"Statistical and mathematical analysis of Zika virus outbreak data in Colombia, and estimate of the role of sexual transmission" "Arrival of Zika virus into a Chikungunya virus and Dengue virus hyper-endemic area: Description of the emergence in Barranquilla"	Sherry Towers ARIZONA STATE UNIVERSITY, USA Claudia Romero Vívas UNIVERSIDAD DEL NORTE, COLOMBIA
9:00 – 10:00	"Una aproximación al estudio de la dinámica de enfermedades transmitidas por vectores teniendo en cuenta factores socio-económicos"	José Ricardo Arteaga UNIVERSIDAD DE LOS ANDES, COLOMBIA
10:00-10:30	*COFFEE BREAK*	
10:30-11:30	"Towards the development of a computational tool for automatic counting and classification of disease transmission vectors"	Pedro Merino ESCUELA POLITECNICA NACIONAL-EPN, ECUADOR
11:30-13h00	**WORKSHOP 3**: "Vector Distribution Modeling in Geographic Information System (GIS)" ***LOCATION:*** *Multimedia Rooms, buiding 26 EPN*	Emmanuelle Quentin NATIONAL INSTITUTE OF RESEARCH IN PUBLIC HEALTH-INSPI, ECUADOR
	WORKSHOP 4: "Evolutionary computing: Primer Evolutionary Algorithms" **LOCATION:** *Auditorium 503-EPN*	Byong Kwon ARIZONA STATE UNIVERSITY, USA
13:00-14:00	*LUNCH*	
14H00-17H00	**WORKSHOP 3**: "Vector Distribution Modeling in Geographic Information System (GIS)" ***LOCATION:*** *Multimedia Rooms, buiding 26 EPN*	Emmanuelle Quentin NATIONAL INSTITUTE OF RESEARCH IN PUBLIC HEALTH-INSPI, ECUADOR
18:30	SCIENTIFIC COMITTEE MEETING	

WEDNESDAY, JULY 20

Location: Auditorium 503-EPN

08:00-09:00	"Strategies to link NMR, mass spectrometry and phenotypic data in metabolomics"	Arthur Edison UNIVERSITY OF GEORGIA, USA
09:00-10:00	"Human Microbiome in Health and Disease"	Paúl Cárdenas UNIVERSIDAD DE LAS AMERICAS-UDLA, ECUADOR
10:00-10:30	*COFFEE BREAK*	
10:30-11:30	"Evidence of the effect of the consumption of Lupine consumption to decrease the risk of cardiovascular diseases"	Manuel Baldeón UNIVERSIDAD DE LAS AMERICAS-UDLA, ECUADOR
11:30 – 12:00	"Biomathematics Research at University of Puerto Rico-Carey"	Maytee Cruz Aponte UNIVERSIDAD DE PUERTO RICO, PUERTO RICO
12:00-12:30	"Resistance to antiretrovirals and subtypes in patients with HIV-1"	Manuel González NATIONAL INSTITUTE OF RESEARCH IN PUBLIC HEALTH-INSPI, ECUADOR
12:30-13:00	"Amplification of Leishmaniasis Disease in coinfection with HIV"	Juan Meléndez UNIVERSIDAD DE PUERTO RICO, PUERTO RICO
13:00-14:00	*LUNCH*	
14:00-14:30	"Bartonelosis in Ecuador, Oyora Fever"	Yasuji Amano NATIONAL INSTITUTE OF RESEARCH IN PUBLIC HEALTH-INSPI, ECUADOR
14:30 – 15:00	"Mathematical Model for Zika with control interventions"	Roxana López Cruz UNIVERSIDAD NACIONAL MAYOR DE SAN MARCOS, PERÚ
15:00-15:30	"Analyzing sexual transmission in the spread of Zika virus in Colombia"	Victoria Kelley ARIZONA STATE UNIVERSITY, USA
15:30-16:00	"Molecular Epidemiology of Human Papiloma Virus in Women with cervical lesions from Costal Region of Ecuador"	César Bedoya NATIONAL INSTITUTE OF RESEARCH IN PUBLIC HEALTH-INSPI, ECUADOR
16:00-16:30	*COFFEE BREAK*	
16:30-17:30	**POSTER SESSION** ***LOCATION:*** *Auditorium 503 Hall-EPN*	

THURSDAY, JULY 21

Location: Auditorium 503-EPN

08:00-09:00	"Forgotten People, Forgotten Diseases: The Neglected"	Anuj Mubayi ARIZONA STATE UNIVERSITY, USA
09:00-10:00	Leishmaniasis: Neglected of the neglected diseases in Ecuador	Patricio Ponce UNIVERSIDAD DE LAS AMÉRICAS-UDLA, ECUADOR
10:00-10:30	*COFFEE BREAK*	
10:30-11:30	"The role of palm proximity in Chagas disease infection in risk in Colombia"	Juan Manuel Cordovéz UNIVERSIDAD DE LOS ANDES, COLOMBIA
11:30-12:00	"Las estrategias evolutivamente estables y su relación con el crimen en El Salvador"	Elner Crespín UNIVERSIDAD FRANCISCO GAVIDIA, EL SALVADOR
12:00-12:30	"Experience in the Implementation of the Data Modeling Unit in Epidemiology in Peru"	Margoth Vidal MINISTERIO DE SALUD, PERU
12:30-13:00	"Exploring the effects of a parasite on the ecological and epidemiological relationships between species including ecological perturbance"	Armando Salinas ARIZONA STATE UNIVERSITY, USA
13:00-14:00	*LUNCH*	
14:00-14:30	"Genexpert Tb/Rif Performance in respiratory specimens in comparison to bacteriological culture and smear microscopy"	Greta Franco/Margarita León NATIONAL INSTITUTE OF RESEARCH IN PUBLIC HEALTH-INSPI, ECUADOR
14:30 – 15:00	"Human influence on snake vital dynamics, a predator-prey approach "	Carlos Cruz ARIZONA STATE UNIVERSITY, USA
15:00-15:30	"Efectos de la suplementación con té verde, arándanos y toronjil en la actividad locomatriz de moscas drosophila melanogaster del tipo salvaje y en moscas modificadas genéticamente en el modelo de tauropatía"	Carla Caicedo FOOD GOURMET SERVICE, ECUADOR
15:30-16:00	*COFFEE BREAK*	
16:00-17:00	"Conceptual framework for spatio-temporal analysis of health	Emmanuelle Quentin NATIONAL INSTITUTE OF RESEARCH IN PUBLIC HEALTH-INSPI, ECUADOR

FRIDAY, JULY 22

Location: Auditorium 503-EPN

08:00-09:00	"Bibliometric analysis of the Health Policy and Systems Research Literature: How much does research influence policy? "	Krista English CENTRE FOR COMPLEXITY SCIENCE FOR HEALTH SYSTEMS, CANADA
09:00-10:00	"Dengue epidemics in northwest Argentina"	Juan Pablo Aparicio INENCO, ARGENTINA
10:00-10:30	*COFFEE BREAK*	
10:30-11:30	"Bioactive natural products and their effects on human health"	Patricio Rojas UNIVERSIDAD DE LAS AMÉRICAS-UDLA, ECUADOR
11:30 – 12:00	"Effects of spatial and social structure in vector borne diseases"	Jorge Velázquez Castro BUAP, MEXICO
12:00-12:30	"Genotyping mitochondrial ND4 gene of *Aedes aegypti* populations from Ecuador"	María José Cárdenas NATIONAL INSTITUTE OF RESEARCH IN PUBLIC HEALTH-INSPI, ECUADOR
12:30-13:00	"Mosquitoes: public health and conservation concerns in the Galápagos Islands"	Giovanni Ramón NATIONAL INSTITUTE OF RESEARCH IN PUBLIC HEALTH-INSPI, ECUADOR
13:00-14:00	*LUNCH-CLOSING EVENT*	