Poster Programme

Poster Session 1
Wednesday 07th November 2018, 11:30-13:00
Room: Tramuntana 1

MOLECULAR DIAGNOSIS, EPIDEMIOLOGY AND TAXONOMY

[P1.1.01] **Two Beijing strains lead the transmission of tuberculosis among the cases recently diagnosed in Colon, Panama.**
D. Sambrano*[1], F. Acosta[2], V. Batista[1], L. Pérez-Lago[2], P. Muñoz[2,3], M. Garay[1], M. Mayrena[4], L. Solís[5], D. Garcia de Viedma[2,3], A. Goodridge[1], *[1]Instituto de Investigaciones Científicas y Servicios de Alta Tecnología, Panama, [2]Instituto de Investigación Sanitaria Gregorio Marañón, Spain, [3]CIBER Enfermedades respiratorias, CIBERES, Spain, [4]Complejo Hospitalario Amador Guerrero, Caja de Seguro Social, Panama, [5]Laboratorio Interinstitucional de Tuberculosis, Ministerio de Salud, Panama*

[P1.1.02] **Frequency of human papillomavirus in a population of asymptomatic women in a regional Peruvian hospital: Determination of circulating genotypes**
L. Becerra-Goicochea[1], M.A. Aguilar-Luis*[2,3], C. Palomares-Reyes[2], L.J. del Valle[4], L. Pinillos-Vilca[1], W. Silva-Caso[2,3], J. Bazán-Mayra[5], V. Zavaleta Gavidea[5], J. Alvitrez-Arana[1,6], J. Del Valle-Mendoza[2,3], *[1]Hospital Regional Docente de Cajamarca, Peru, [2]Universidad Peruana de Ciencias Aplicadas, Peru, [3]Instituto de Investigacion Nutricional, Peru, [4]Universitat Politècnica de Catalunya, Spain, [5]Dirección Regional de Salud de Cajamarca (DIRESA), Peru, [6]Instituto de Investigación de Enfermedades Infecciosas, Peru*

[P1.1.03] **Simplified targeted surveillance of tuberculosis transmission in Panama.**
J. Domínguez[1,2], F. Acosta*[2,3], L. Pérez-Lago[3], D. Sambrano[2], V. Batista[2], C. De La Guardia[2], E. Abascal[3], A. Chiner-Oms[4], I. Comas[5,6], P. González[1], J. Bravo[1], P. Del Cid[1], S. Rosas[1], P. Muñoz[3,7], A. Goodridge[2], D. García de Viedma[3,7], *[1]Instituto Conmemorativo Gorgas de Estudios de la Salud, Panama, [2]Instituto de Investigaciones Científicas y Servicios de Alta Tecnología (INDICASAT-AIP), City of Knowledge, Panama, [3]Hospital General Universitario Gregorio Marañón, Spain, [4]Universitat de València, Spain, [5]Instituto de Biomedicina de Valencia (IBV) Consejo Superior de Investigaciones Científicas (CSIC), Spain, [6]CIBER en Epidemiología y Salud Pública, Spain, [7]CIBER Enfermedades respiratorias, CIBERES, Spain*

[P1.1.04] ***R. helvetica* intraspecific genetic diversity**
T. Azagi*[1,2], M.J. Coimbra-Dores[1], *[1]National Institute for Public Health and the Environment, The Netherlands, [2]The Academic Medical Center (AMC), Universiteit van Amsterdam, The Netherlands, [3]University of Lisbon, Portugal*

[P1.1.05] **Prevalence and genetic properties of *Bartonella* species in northern bats and its ectoparasites in Japan.**
K. Nabeshima*, S. Sato, H. Kabeya, M. Amano, S. Maruyama, *Nihon University, Japan*

[P1.1.06] **Molecular typing of Mycobacterium tuberculosis isolates from university hospital in Thailand by mycobacterial interspersed repetitive unit: Variable number tandem repeat analysis**
A. Sangka*[1], C. Wilailuckana[1], P. Pinlaor[1], W. Namwat[1], K. Faksri[1], S. Tanuchit[2], *[1]Khon Kaen University, Thailand, [2]Ministry of Public Health, Thailand*

[P1.1.07] **Phylogenetic analysis of hepatitis E virus in domestic pigs and wild boars in Slovakia**
A. Jackova*, S. Salamunova, R. Mandelik, J. Novotny, L. Molnar, S. Vilcek, *University of Veterinary Medicine and Pharmacy in Kosice, Slovakia*

[P1.1.08] **Herpes virus acquisition in infancy: Association with the salivary microbiome?**
F. Blostein*, S. Foote, E. Salzman, E. Martin, M. Marazita, B. Foxman, *University of Michigan School of Public Health, USA*

[P1.1.09] **Genetic diversity of Dirofilaria immitis in Portugal: Evaluation of microsatellites in relation to internal transcribed spacer 2 and cytochrome oxidase I**
M.A. Domingos, S. Belo, M. Calado, I.M. Mauricio*, *Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa, Portugal*

[P1.1.10] **Molecular detection of arboviruses in *Aedes* sp. mosquitoes in Rio de Janeiro, Brazil**
T. Ayllón*[1], D.C.P. Câmara[1], R.M. Campos[2], P. Brasil[1], F.C. Morone[1], M.S. Carvalho[1], D.F. Ferreira[2], N.A. Honório[1], *[1]Fundação Oswaldo Cruz, Brazil, [2]Universidade Federal do Rio de Janeiro, Brazil*

[P1.1.11] **Genetic characterization of foot-and-mouth disease virus type A circulating in Anatolia-Turkey during 2005-2018**
P. Tuncer Göktuna*, U. Parlak, F. Özyörük, G.N. Müftüoglu, A. Kurt, V. Gülyaz, *Foot-and-Mouth Disease Institute, Turkey*

[P1.1.12] **Cervus elaphus papillomavirus in red deer: New insights from a Portuguese clinical case.**
L. Gallina*[1], A. Garces[2], I. Pires[2], F. Savini[1], A. Scagliarini[1], *[1]Alma Mater Studiorum Università di Bologna, Italy, [2]University of Trás-os-Montes and Alto Douro Vila Real, Portugal*

[P1.1.13] **The hidden virome of bovine papillomas**
L. Gallina*[1], F. Granberg[2], S. Belák[1], A. Guercio[3], F. Savini[1], A. Scagliarini[1], *[1]Alma Mater Studiorum Università di Bologna, Italy, [2]Swedish University of Agricultural Sciences Uppsala, Sweden, [3]Istituto Zooprofilattico della Sicilia, Italy*

[P1.1.14] **Molecular epidemiology of rotavirus and norovirus strains circulating among pediatric patients with gastroenteritis in Qatar**
S. Mathew[1], M. Smatti[1], A. Al Thani[1], K. Al Ansari[2], H. Yassine*[1], *[1]Qatar University, Qatar, [2]Hamad Medical Corporation, Qatar*

[P1.1.15] **Deer carrying Anaplasma capra: A new zoonotic tick-transmitted pathogen in Europe?**
M. Jouglin[1], B. Blanc[2], N. de la Cotte[1], K. Ortiz[2], L. Malandrin*[1], *[1]INRA, Oniris, Université Bretagne Loire, France, [2]Muséum National d'Histoire Naturelle, Réserve Zoologique de la Haute Touche, France*

[P1.1.16] **First isolation of dengue virus serotype 3 in a north region of Peru: molecular diagnosis and clinical characteristics**
M.A. Aguilar-Luis*[1,2], J. Martins-Luna[1], L.J. del Valle[3], V. Zavaleta[4], C. Palomares-Reyes[1,2], J. Bazán-Mayra[4], W. Silva-Caso[1,2], D. Cornejo[4], R. Aquino-Ortega[1,2], J. Bazán-Zurita[5], *[1]Universidad Peruana de Ciencias Aplicadas (UPC), Peru, [2]Instituto de Investigacion Nutricional, Peru, [3]Universitat Politècnica de Catalunya, Spain, [4]Dirección Regional de Salud de Cajamarca, Peru, [5]Universidad Privada Antonio Guillermo Urrelo, Peru*

[P1.1.17] **Geographic distribution and risk assessment of dengue and its associations with the El Niño phenomenon in an endemic region of Peru during 2004-2015**
W. Silva-Caso[1,2], M.A. Aguilar-Luis[1,2], J. Martins-Luna*[1], E. Misaico[3], N. Espinoza[4], L. Stimmler[2], F. Soto Febres[5], Y. Cabrera Cortez[6], C. Palomares-Reyes[1], J. del Valle-Mendoza[1], *[1]Universidad Peruana de Ciencias Aplicadas (UPC), Peru, [2]Instituto de Investigación Nutricional, Peru, [3]Hospital de Tingo Maria, Peru, [4]Universidad Nacional Agraria de la Selva, Peru, [5]Hospital Guillermo Almenara, Peru, [6]Red de Salud Leoncio Prado, Peru*

[P1.1.18] **The first report of hare treponematosis in European brown hare (*Lepus europaeus*) in the Czech Republic**
M. Nováková*[1], D. Najt[2], L. Pašteková[1], E. Vrbová[1], M. Strouhal[1], M. Kostková[3], D. Šmajs[1], *[1]Masaryk University, Czech Republic, [2]University of Veterinary Hygiene and Ecology, Czech Republic, [3]State Veterinary Institute Jihlava, Czech Republic*

[P1.1.19] **Recent challenges posed by the outbreak of listeriosis in South Africa: Lessons from this incidence**
M.A. Nyila, *University of South Africa, South Africa*

[P1.1.20] ***Trichuris trichiura* isolated from *Macaca sylvanus*: Zoonotic implications**
A. Zurita*, J. Rivero, R. Callejón, C. Cutillas, *University of Seville, Spain*

[P1.1.21] **Syntheses and biological evaluation of novel 4(1H)-pyridone derivatives targeting cytochrome bc1 Qi site of *plasmodium falciparum* based on *in- silico* studies**
O.Y. Audu*[1], A. Stander[1], O.O. Ajani[1,2], N. October[1]
[1]University of Pretoria, South Africa, [2]Covenant University, Nigeria

Poster Session 2
Thursday 08th November 2018, 12:00-13:30
Room: Tramuntana 1

CO-EVOLUTION BETWEEN HOSTS, PATHOGENS AND VECTORS

[P2.1.01] **Characterization of host genetic markers in the context of HIV-1 and/or Tuberculosis and their impact on the occurrence of Immune Reconstitution Inflammatory Syndrome (IRIS)**
N.B.R. De Sa[1], N.C.S. De Souza[1], M. Ribeiro-Alves[1], T.P. Silva[1], J.H.S. Pilotto[1], V.C. Rolla[1], C.B.W. Giacoia-Gripp[1], D. Scott-Algara[2], M.G. Morgado[1], S.L.M. Teixeira*[1], *[1]FIOCRUZ, Brazil, [2]Institut Pasteur, France*

[P2.1.02] **MHC genes associated with cure of infection with *T. cruzi* in the indigenous people from the north of Colombia.**
J. Dib*[1,3], M.T. Mojica Ortiz[2], A. Aristizábal[3], H. San Juan Vergara[1], *[1]Universidad del Norte, Colombia, [2]Universidad del Magdalena, Colombia, [3]Fundación Salud Para el Trópico, Colombia*

[P2.1.03] **Molecular assessment of *Bartonella* prevalence, diversity and zoonotic potential of indigenous Tete Veld rats (*Aethomys ineptus*) from Roodeplaat Nature Reserve, South Africa**
L.M. Hatyoka[1], H. Brettschneider[1], N.C. Bennett[1], D.J. Kleynhans*[1], S.P. Muteka[1], A.D.S. Bastos[1], *[1]Universityof Pretoria, South Africa, [2]University of Namibia, Namibia*

[P2.1.04] **Positively selected and recombinant genes in treponemal pathogens: Syphilis-, yaws-, and bejel-causing strains differ in sets of genes showing adaptive evolution**
D. Maderánková[1], L. Mikalová[2], I. Provazník[1], D. Šmajs*[2], *[1]Brno University of Technology, Czech Republic, [2]Masaryk University, Czech Republic*

[P2.1.05] **Evaluation of common genetic variants in 23 candidate genes as risk factors for pulmonary tuberculosis: a case-control study in Moldavian population**
A.M. Varzari*[1], I.V. Deyneko[2], M. Schieck[3], E. Tudor[1], I. Vladei[1], H. Grallert[4], T. Illig[3], *[1]Chiril Draganiuc Institute of Phthisiopneumology, Republic of Moldova, [2]Technische Universität Braunschweig, Germany, [3]Hannover Medical School, Germany, [4]Helmholtz Zentrum München German Research Center for Environmental Health, Germany*

[P2.1.06] **Metagenomics in *Ixodes* spp.: Is there a species-specific microbiota?**
S. Díaz-Sánchez*[1], A. Hernández-Jarguín[1], J. de La Fuente[1,2], *[1]Instituto Investigación en Recursos Cinegéticos, UCLM, Spain, [2]Oklahoma State University, USA*

[P2.1.07] **Simulation of intra-patient HIV populations reveals variability of global haplotype reconstruction**
M.L. Bendall, K.M. Gibson, P. Avdeev, M. Pérez-Losada*, K.A. Crandall, *George Washington University, USA*

[P2.1.08] **Genetic diversity of *Echinococcus granulosus* in Sardinia (Italy)**
P. Bonelli*, A. Peruzzu, S. Dei Giudici, T. Piseddu, G. Masu, C. Santucciu, G. Masala
Istituto Zooprofilattico Sperimentale (IZS) of Sardinia, Italy

VIRULENCE AND RESISTANCE IN PATHOGENS

[P2.2.01] **Whole-genome-sequencing coupled with a strain-specific PCR defined with higher accuracy a nosocomial outbreak involving a MDR-*Pseudomonas aeruginosa* strain**
F. Acosta[1,2], A. Fernández-Cruz[1,2], S.R. Maus[1,2], M. Marín[1,2], E. Cercenado[1,2], P. Muñoz[1,2], D. García de Viedma[1,2], L. Pérez-Lago*[1,2], *[1]Instituto de Investigación Biomédica Gregorio Marañón, Spain, [2]Hospital General Universitario Gregorio Marañón, Spain, [3]CIBER Enfermedades respiratorias, CIBERES, Spain*

[P2.2.02] Fading trends of formerly predominant multidrug-resistant strains of *Mycobacterium tuberculosis* in Argentina disclosed by novel tailored molecular strategy

J. Monteserin[1,2], L. Pérez-Lago[3], N. Yokobori[2,4], R. Paul[1], I. Wainmayer[1], N. Simboli[1], V. Eldholm[5], B. López*[1], D. García de Viedma[3], V. Ritacco[1], [1]*Instituto Nacional de Enfermedades Infecciosas ANLIS, Argentina,* [2]*CONICET, Argentina,* [3]*Instituto de Investigación Sanitaria Gregorio Marañón, Spain,* [4]*Instituto de Medicina Experimental, Argentina,* [5]*Norwegian Institute of Public Health, Norway*

[P2.2.03] CS26 pilus of enterotoxigenic *Escherichia coli* determines adherence to intestinal cells

L. Cádiz*[1], A. Torres[1], R. Valdés[1], O. Colin Stine[2], R. Vidal[1], F. Del Canto[1], [1]*University of Chile, Chile,* [2]*University of Maryland, USA*

[P2.2.04] Biological roles of antioxidant glutathione transferases of Clonorchiasis sinensis

J-G. Kim*, C-S. Ahn, Y. Kong, *Sungkyunkwan University School of Medicine, Republic of Korea*

[P2.2.05] Molecular characterization and epidemiology of plasmid-mediated quinolone resistance in extended spectrum β-lactamase-producing *klebsiella pneumoniae* from the university hospital establishment of oran-algeria.

A. Zemmour*[1], R. Abi-aya[2,3], N. Saidi-Ouahrani[1], B. Rahmani[1], G.C. Giske[4,5], [1]*University of Sciences & Technology of Oran, Algeria,* [2]*University Hospital Establishment of Oran, Algeria,* [3]*Medical Faculty of Oran, Algeria,* [4]*Karolinska Institute, Sweden,* [5]*Karolinska University Hospital, Sweden*

[P2.2.06] Highly clarithromycin-resistant Helicobacter pylori infection in children from a rural community of Cajamarca (Peru)

M.A. Aguilar-Luis*[2,3], F. Palacios-Cuervo[1], F. Espinal-Reyes[1], A. Calderón-Rivera[1], S. Levy-Blitchtein[1], C. Palomares-Reyes[2,3], W. Silva Caso[2], A. Cornejo Tapia[2], J. del Valle Mendoza[2,3], L.J. del Valle[4], [1]*Medicine School, Health Sciences Faculty, Universidad Peruana de Ciencias Aplicadas (UPC), Peru,* [2]*Investigation Center and Innovation of the Health Sciences Faculty, Universidad Peruana de Ciencias Aplicadas (UPC), Peru,* [3]*Instituto de Investigación Nutricional, Peru,* [4]*Universidad Politecnica de Catalunya, Spain*

[P2.2.07] Antimicrobial activity of *Lactobacillus paracasei* culture filtrate against *Candida albicans* biofilms

R.D. Rossoni*, P.P. Barros, F.C. Ribeiro, G.R. Hurtado, R.P. Medina, D.H.S. Silva, J.C. Junqueira, *São Paulo State University (Unesp), Institute of Science and Technology, Brazil*

TRANSCRIPTOMICS/PROTEOMICS

[P2.3.01] Transcriptome profile of mature biofilm of *Escherichia coli* O157:H7 on stainless steel surface and comparison of transcriptional response of biofilm and planktonic cells to sodium hypochlorite

E.S. Lim*[1], J.S. Kim[1,2], [1]*Korea University of Science & Technology, Republic of Korea,* [2]*Korea Food Research Institute, Republic of Korea*

[P2.3.02] Protegenomic analysis of *Mycobacterium tuberculosis* Beijing B0/W148 cluster

J.A. Bespyatykh*[1], A.V. Smolyakov[2], G.P. Arapidi[2,1], E.A. Shitikov[1], E.N. Ilina[1], [1]*Federal Research and Clinical Centre of Physical-Chemical Medicine, Russia,* [2]*Institute of bioorganic chemistry RAS, Russia*

[P2.3.03] Comparison of hydatid fluid proteome of *Echinococcus multilocularis* and *Echinococcus granulosus* and molecular properties of EmAgB3

C.S. Ahn*, J.G. Kim, Y. Kong, *Sungkyunkwan University, Republic of Korea*

PHYLOGENETICS, PHYLOGENOMICS, PHYLOGEOGRAPHY

[P2.4.01] Phylogenetic characterization of the first lineage 2 West Nile virus detected in Spain

N. Busquets*[1], R. Villalba[2], M. Laranjo[1], R. Rivas[1], N. Torner[3], M. Soler[3], O. Nicolàs[4], S. Napp[1], [1]*Centre de Recerca en Sanitat Animal (CReSA), Spain,* [2]*Laboratorio Central de Veterinaria, Spain,* [3]*Generalitat de Catalunya, Spain,* [4]*Vallcalent Wildlife Recovery Center, Spain*

[P2.4.02] How to get rid of host DNA in *Plasmodium*-infected blood samples to generate good quality *Plasmodium* genomes?

C. Arnathau*, A. Boissière, P. Durand, F. Renaud, V. Rougeron, F. Prugnolle, *CNRS, France*

GENOMICS

[P2.5.01] Genetic mapping of an adaptive parasite trait: A major locus on chromosome 1 determines cercarial shedding time in schistosomes

G. Mouahid[1], F. Chevalier[2], J. Langand[1], M.A. Idris[3], S. Al Yafae[4], M. McDew-White[2], T.J.C. Anderson[2], H. Mone*[1], [1]*University of Perpignan, France,* [2]*Texas Biomedical Research Institute, USA,* [3]*Sultan Qaboos University, Oman,* [4]*Sultan Qaboos Hospital Salalah, Oman*

[P2.5.02] Comparative genome analysis of skin disease-related Mycobacteria

B. Chavarro-Portillo*[1,2], M.I. Guerrero-Guerrero[1], C.Y. Soto-Ospina[2], A. Pinzón[2], [1]*Hospital Universitarios Centro Dermatologico Federico Lleras Acosta, Colombia,* [2]*Universidad Nacional de Colombia, Colombia*

EXPERIMENTAL EVOLUTION

[P2.6.01] Diurnal and nocturnal chronotypes in schistosomes: Do post-mating barriers prevent interbreeding?

G. Mouahid*[1], F. Chevalier[2], J. Langand[1], M.A. Idris[3], S. Al Yafae[4], M. McDew-White[2], T.J.C. Anderson[2], H. Mone[1], [1]*University of Perpignan, France,* [2]*Texas Biomedical Research Institute, USA,* [3]*Sultan Qaboos University, Oman,* [4]*Sultan Qaboos Hospital Salalah, Oman*

IN-SILICO EVOLUTION

[P2.7.01] The evolutionary relationship, gene expression and *in-silico* analysis of plasmid-mediated CTX-M-15 extended spectrum β-lactamase in a ceftazidime resistance clinical isolate of *Acinetobacter baumannii*

M.R. Shakibaie*[1], O. Azizi[1], F. Modarresi[1], [1]*Kerman University of Medical Sciences, Iran,* [2]*Torbat Heydariyeh University of Medical Sciences, Iran,* [3]*Jahrom University of Medical Sciences, Iran*