

**SOCIEDAD ESPAÑOLA DE
MEDICINA TROPICAL Y SALUD INTERNACIONAL
- SEMTSI -**

**IV CONGRESO
DE LA SEMTSI**

VALENCIA

**Facultad de Farmacia de la Universidad de Valencia
Av. Vicent Andrés Estellés s/n, 46100 Burjassot, Valencia**

18 – 22 Julio 2004

COMITE DE HONOR

**S.M. el Rey de España
Don JUAN CARLOS I**

**Molt Honorable Presidente de la Generalitat Valenciana
Sr. FRANCISCO CAMPS ORTIZ**

**Excma Sra Ministra de Sanidad
Doña ELENA SALGADO MENDEZ**

**Excma Sra Ministra de Educación y Ciencia
Doña MARIA JESUS SANSEGUNDO GOMEZ DE CADIÑANOS**

**Honorable Conseller de Sanidad, Generalitat Valenciana
Sr. VICENTE RAMBLA MOMPLET**

**Honorable Conseller de Cultura, Educación y Deporte, Generalitat Valenciana
Sr. ESTEBAN GONZALEZ PONS**

**Excma Sra Alcaldesa de Valencia
Doña RITA BARBERA NOLLA**

**Ilmo Sr. Presidente de la Diputación Provincial de Valencia
Don FERNANDO GINER GINER**

Excmo y Magfco Sr. Rector de la Universitat de València

Don FRANCISCO TOMAS I VERT

Sr. Alcalde de Burjassot

Don JOSÉ LUIS ANDRÉS CHAVARRÍAS

COMITE ORGANIZADOR

S. Mas-Coma (Presidente)
M.D. BARGUES (Vice-Presidente)
J.G. Esteban (Secretario)
M.A. Valero (Tesorera)
M.V. Fuentes
M.T. Galán-Puchades
J. Gálvez
R. García-Domenech
A. Marcilla
C. Muñoz-Antoli
R. Toledo
M. Khoubbane
M. Panova
J.V. De Julián Ortíz

COMITE CIENTIFICO

S. Mas-Coma (Valencia, Presidente)
M.D. BARGUES (Valencia, Secretaria)
P. Alonso (Barcelona)
J. Alvar (Madrid)
A. Benito (Madrid)
M. Fresno (Madrid)
M.V. Fuentes (Valencia)
J.G. Esteban (Valencia)
M.T. Galán-Puchades (Valencia)
J. Gascón (Barcelona)
D. González-Pacanowska (Granada)
C. Menéndez (Barcelona)
C. Muñoz-Antoli (Valencia)
M.A. Valero (Valencia)

SECRETARIA

IV Congreso de la SEMTSI - Secretaría
Departamento de Parasitología, Facultad de Farmacia, Universidad de Valencia
Av. Vicent Andrés Estellés s/n, 46100 Burjassot - Valencia, Spain
Fax: +(34)-96-354-47-69; Email: emop.9@uv.es

<http://www.uv.es/emop9/SEMTSI>

PROGRAMA CIENTIFICO DETALLADO

CEREMONIA DE INAUGURACION

Día: Domingo 18 de Julio
Horario: 10.00-11.00

Lugar: Facultad de Farmacia
Sala: Auditorium

SESION DE COMUNICACIONES ORALES A1: MALARIA

Presidencia: J. Alvar y S. Puente

Día: Domingo 18 de Julio
Horario: 11.30-14.00

Sala: Auditorium
Comunicaciones Nos.: 1-10

- 1 J. Gascon, N. Mühlberger, G. Peyerl, I. Oliveira, A. Mayor, C. Dobaño, T. Jelinek, M. Corachan.- Vigilancia molecular de la resistencia a fármacos antipalúdicos de cepas importadas de *Plasmodium falciparum*
- 2 P.J. Berzos, A. Guerra-Neira, A. de Lucio, E. Moyano, Z.G. Chen, A. Benito.- Estudio de las mutaciones puntuales en los genes DHFR, DHPS responsables de las resistencias de malaria a la sulfadoxina / pirimetamina en muestras recolectadas en Bata (Guinea Ecuatorial) durante el año 2002
- 3 C. Romagosa, C. Menéndez, A. Bardají, I. Mandomando, J. Ordi, C. Fonseca, M. Espasa, P.L. Alonso.- Parasitemia en sangre periférica, de cordón y de placenta en el contexto de un estudio de intervención con redes mosquiteras y tratamiento intermitente contra la malaria en mujeres embarazadas de Manhiça, Mozambique
- 4 A. Bardají, C. Menéndez, X. Gómez Olivé, B. Sigauque, C. Romagosa, S. Amós, P.L. Alonso.- Malaria y embarazo: screening de malaria en embarazadas a través del sistema de detección pasiva de casos de los Servicios de Salud Materno Infantil del Centro de Saúde de Manhiça, Mozambique
- 5 M. Trapero Bertran, C. Menéndez, A. Roca, P. Alonso, X. Mas Canal.- Estimación de la carga económica para las familias de los episodios de malaria, anemia y neumonía severa en niños menores de 5 años en Mozambique rural
- 6 D. Torrús, J.M. Ramos, J. Portilla, F. Gutiérrez, J.M. Cuadrado, J. Ena, M.V. Rigo-Medrano, F.J. Bornay-Llinares.- Paludismo importado en la provincia de Alicante en los años 1995-2003
- 7 E. Lapuente Troncoso, I. Gutiérrez Garitano, E. Cantera Garde, J.A. Sancho Esteras, M. Valencia Basaldúa, M. Zabalza Azparren.- Malaria pediátrica en Álava, País Vasco
- 8 I. Gutiérrez Garitano, E. Cantera Garde, E. Lapuente Troncoso, K. Latorre García, J.A. Sancho Esteras, M. Valencia Basaldúa, M. Zabalza Azparren.- Malaria importada en el País Vasco: ¿dónde nos encontramos?
- 9 M. Mallart Raventos, P. Solanas Saura, A. Deulofeu Carreras, J. Vilaplana Birba, F. Bastida Fenoy, Arenas.- Estudio descriptivo de los casos de paludismo diagnosticados en el Servicio de Urgencias del Hospital Santa Caterina, Girona
- 10 S. Puente, T. García-Benayas, V. Soriano, A. Benito, E. de la Vega, M. Rodríguez, R. de Julián, J.M. González-Lahoz.- Esplenomegalia Malárica Hiperreactiva (EMH) e infección por el Virus de la Inmunodeficiencia Humana (VIH): 6 casos

SESION DE COMUNICACIONES ORALES B1: BIOLOGIA MOLECULAR E INMUNOLOGIA

Presidencia: B. Valladares y A. Benito

Día: Domingo 18 de Julio
Horario: 11.30-14.00

Sala: Aula 13 F
Comunicaciones Nos.: 11-20

- 11 J. Moreno, J. Nieto, E. Carrillo, M. Crusat, M. Elbali, I. Cruz, C. Chicharro, C. Cañavate, J. Alvar.- Hacia una mejor comprensión de la leishmaniasis canina
- 12 E. Carrillo, I. Cruz, J. Nieto, J. Moreno, J. Alvar.- Estudio del patrón de expresión de citoquinas en la leishmaniasis canina
- 13 J. Carcelén, I. Molano, V. Iniesta, I. Corraliza, M. Mangas, I. Monroy, L.C. Gómez-Nieto.- Vacunación contra la leishmaniasis canina con la proteína recombinante quimera (PQ) y Kmp11 de *Leishmania infantum* I: protección clínica, inmunológica y parasitológica
- 14 J. Carcelén, I. Molano, V. Iniesta, I. Corraliza, M. Mangas, E. Redondo, I. Monroy, L.C. Gómez-Nieto.- Vacunación contra la leishmaniasis canina con la proteína recombinante quimera (PQ) y Kmp11 de *Leishmania infantum* II: estudio histopatológico
- 15 V. Iniesta, J. Carcelén, E. Redondo, I. Molano, M. Mangas, I. Corraliza, I. Monroy, L.C. Gómez-Nieto.- La respuesta inmune específica durante el desarrollo de la infección por *Leishmania major* está estrechamente relacionada con los parámetros histopatológicos en ratones sensibles (BALB/c) y resistentes (C57BL/6) a la enfermedad
- 16 E. Garzón, M. Coutinho Borges, A. Cordeiro-da-Silva, V. Nacife, M. de Nazareth Meirelles, E. Guilvard, M.F. Bosseno, A. Gustavo Guevara, S. Frédérique Brenière, A. Ouaiissi.- Implicación de la proteína inmunosupresiva Tc52 de *Trypanosoma cruzi* en la inmunopatología de la enfermedad de Chagas en ratones

- 17 A. Moreno, M. Moreno, J. Moreno, C. Eguiluz, N. van Rooijen, Z.G. Chen, A. Benito.- Un nuevo modelo de ratón inmunodeficiente para el estudio *in vivo* de los estadios eritrocíticos de la malaria humana
- 18 E. Ferrer, P. Bonay, M. Foster, L.M. González, M. Cortéz, I. Dávila, L.S.J. Harrison, R. Parkhouse, T. Gárate.- Clonación y caracterización de antígenos de excreción/secreción de metacestodos de *Taenia solium*
- 19 L. Calleros, D. Klisiowicz, F. Panzera, R. Pérez, M. Lorca, S. Mas-Coma, M.D. Bargues.- Análisis de los espaciadores internos del ADN ribosomal (ITS-1 e ITS-2) y del gen 5.8 S del género *Meptraia* Mazza, Gajardo et Jörg 1940 (Hemiptera, Reduviidae, Triatominae)
- 20 D.R. Klisiowicz, F. Panzera, R.S. Pacheco, S. Mas-Coma, M.D. Bargues.- Discriminación molecular entre poblaciones de *Triatoma rubrovaria* Blanchard, 1843 (Hemiptera, Reduviidae, Triatominae) mediante análisis de las secuencias de la región intergénica del ADN ribosomal

SESION DE COMUNICACIONES ORALES C1: ENFERMEDADES INFECCIOSAS EN LOS TROPICOS

Presidencia: J. Gascón y M. Gállego

Día: Domingo 18 de Julio
Horario: 11.30-14.00

Sala: Aula 14 F
Comunicaciones Nos.: 21-30

- 21 A. Roca, B. Sigaúque, X. Vallès, Ll. Quintó, S. Sanz, I. Mandomando, B. Flannery, A. Schuchat, M. Corachan, M. Soriano-Gabarró, P. Alonso.- Carga de enfermedad de la neumonía y las infecciones invasivas por neumococo: posible impacto de una vacuna conjugada contra el neumococo en Manhiça, una zona rural del Sur de Mozambique
- 22 M. Espasa, J. González, J. Sacarlal, A. McArthur, I. Oliveira, P. Perdigão, P. Alonso.- Implementación del tratamiento directamente observado para tuberculosis al nivel de las Unidades Sanitarias Periféricas del Distrito de Manhiça (Mozambique)
- 23 I. Mandomando, J. Sacarlal, X. Valles, M. Espasa, J. Ruiz, S. Sanz, B. Sigauque, I. Oliveira, E. Macete, F. Abacassamo, J. Gascon, P. Alonso.- Caracterización de *Salmonellas* bacteriémicas aisladas en niños ingresados en una zona rural del sur de Mozambique (2001-2003)
- 24 I. Oliveira, M. Martínez, S. Sanz, B. Sigauque, M. Espasa, I. Mandomando, A. Bardají, A. Roca, P.L. Alonso.- Meningitis Bacteriana Aguda en una zona rural del sur de Mozambique (1998-2003)
- 25 A. Calmy, L. Pinoges, A. Cirera, P. Humblet, F. Pascual, E. Szumilin, V. Torres, R. Zachariah, L. Ahoua, S. Balandine, J.M. Tassie, L. Ferradini, A. de Dios.- Terapia antiretroviral en países con recursos limitados: experiencia de Médicos sin Fronteras en Africa, Asia, América Latina y Europa del Este
- 26 F. Rico, A. Bazzoli, F.I. Rodríguez, S. Codazzi.- Diálogo e inculturación: una estrategia nueva frente al SIDA en Camerún
- 27 J. Domínguez, R. Gracia-Trabanino, C. Moya, J.M. Jansà.- Insuficiencia renal crónica endémica en la zona costera de El Salvador
- 28 F. Parreño, F. Román, W. Chambi, J. Uriza, E. Goñi, S. Moriana, J.M. Escrivà, C. Kuan.- Diagnóstico y tratamiento de la Enfermedad de Chagas con una seroprevalencia del 20.4% en el Departamento de Tarija, provincia de O'Connor (Bolivia)
- 29 M. Khoubbane, M.D. Bargues, S. Mas-Coma.- Epidemiología de la Fascioliasis en Egipto: susceptibilidad de los lymnaeidos y su papel en la transmisión
- 30 R. Angles.- Strongyloidosis en Caravani, Departamento de La Paz, Bolivia

SESION DE DISCUSION DE POSTERS A1: ENFERMEDADES INFECCIOSAS IMPORTADAS Y EMERGENTES, INMIGRACION, CASOS CLINICOS

Presidencia: J.L. Pérez-Arellano y R. Borrás

Día: Domingo 18 de Julio
Horario: 15.30-18.00

Sala: Auditorium
Comunicaciones Nos.: 31-58

- 31 M. Martínez, I. Oliveira, M. Ribell, T. Pumarola, M. Corachán, J. Gascón.- Infección importada por Parvovirus B19
- 32 C. Domingo, F. De Ory, M. Cabrerizo, J. Gascón, S. Puente, R. López-Vélez, N. Reyes, I. Oliveira, J. de la Fuente, M.P. Sánchez-Seco, A. Tenorio.- Diagnóstico de infecciones secundarias por dengue en viajeros
- 33 E. Letang Jiménez de Anta, A. Díaz Conradi, J. Martínez Lacasa, R. García Puig, N. Freixas Sala, L. Tobeña Boada, J. Garau Alemany.- Revisión de la tuberculosis en niños inmigrantes a raíz de un caso de otomastoiditis tuberculosa en un lactante marroquí
- 34 S. Puente, D. Fernández-Luengas, A. Enríquez, J.R. Paño, J. Cobo, A. Amor-Aramendía, J.M. González-Lahoz.- Piomiositis tropical: 5 casos importados
- 35 O. Pérez-Luzardo, A. Pérez Brito, L. Domínguez-Boada, M. Hernández-Cabrera, M. Zumbado Peña, C. Carranza, J.L. Pérez Arellano.- Brote autóctono de ciguatera en Canarias (5 casos)
- 36 J. Gómez i Prat, I. Claveria, B. Treviño, C. Manzardo, R. Navarro.- Enfermedad de Chagas en Europa: una realidad creciente? Estudio epidemiológico de los casos diagnosticados en la Unidad de Medicina Tropical Salud Internacional Drassanes de Barcelona entre Octubre 2002 y Enero 2004
- 37 A. Rodríguez Guardado, I. Huerta, F. Pérez, N. Mendez, Y. González, P. Suarez.- Paludismo importado: problemas diagnósticos y terapéuticos
- 38 N. Laufer, M. Alsina, I. Oliveira, M. Gallego, M. Portus, M. Corachán, J. Gascón.- Estudio descriptivo de casos de leishmaniasis importada en el Hospital Clínic de Barcelona 1990-2003

- 39 M.T. Llorente, A. Clavel, M. Varea, J. Sahagún, S. Olivera.- Infección por *Cryptosporidium felis* en un niño inmunocompetente de origen indio adoptado en España
- 40 L. Cabanas Collell, C. Arias Arteagoitia, J. Cabezos.- Revisión de 183 casos de teniasis en una Unidad de Enfermedades Importadas
- 41 A. Beltrán, I. Oliveira, J. Gascón, M. Corachán.- Estudio retrospectivo de los casos de larva cutánea migrans en un período de 50 meses
- 42 S. Puente, M. Subirats, I. Casado, F. Bru, E. Pérez-Blazquez, M. Lago, T. Gárate, J.M. González-Lahoz.- Oncocercosis: manifestaciones cutáneas de 375 casos
- 43 E. Dopico, L. Calatayud, G. Padrós, E. Grenzner, M. Gomis.- Infecciones parasitarias intestinales en la población inmigrante: una nueva situación en Atención Primaria
- 44 A. Rodríguez Guardado, J. Ordás, F. Pérez, M. Villar, M.E. Álvarez, L. Villa, M. Arias.- Parasitosis intestinales en inmigrantes: problemas diagnósticos y terapéuticos
- 45 B. Treviño, J. Gómez i Prat, C. Manzardo, A. Sierra, F. Zarzuela.- Esquistosomiasis urinaria en dos inmigrantes de Pakistán
- 46 O. Sanz, M. Tapia, E. Pisos, A. Soria, C. Carranza, A. Francès, L. Santana, J.L. Pérez-Arellano.- Valores normales en las magnitudes habituales de laboratorio en personas subsaharianas
- 47 I. Rivas, C. Manzardo, C. Montes, M.J. Jiménez, B. Treviño, J. Cabezos.- Respuesta de IgE y eosinófilos en inmigrantes con helmintiasis
- 48 J.M. Ramos, M. Masiá, S. Padilla, C. Escolano, F. Gutiérrez.- Infección por VIH en pacientes inmigrantes: experiencia de un hospital general en 6 años
- 49 J.R. Gómez Echevarría, F. Moll Cervera.- Educación sanitaria en enfermos de lepra con afectación neurológica
- 50 N. Tornador, A. Blasco, A. del Villar, B. Vidal, D.E. Geffner, M.T. Rodríguez, R. Abizanda.- Status epiléptico y lesión ocupante de espacio
- 51 A. Angel-Moreno, M. Moreiro, M. Hernández-Cabrera, M. Tapia, J.R. Santana, M.C. Camacho, C. Carranza, J.L. Pérez-Arellano.- Síndrome hemofagocítico por herpesvirus tipo 8, otra causa de esplenomegalia masiva en inmigrantes
- 52 I. Gutiérrez Garitano, E. Cantera Garde, E. Lapuente Troncoso, M. Valencia Basaldúa.- Caso clínico: reacción adversa a Mefloquina “en la piel” de un médico psiquiatra
- 53 N. Gutiérrez, J. Muñoz, R. Paredes, A. Lacal, S. Serradell, B. Mothe, C. Muñoz.- Poliartritis reactiva como presentación clínica de parasitación por *Taenia* sp.
- 54 R. Morales, N. Coma, M. Iraizoz, M. Reverté, R. Fernández, V. Feijóo, N. Serre.- Perfil de usuarios atendidos en el mes de Julio en el área de Atención al Viajero de la Unidad de Medicina Tropical i Salut Internacional Drassanes, Barcelona
- 55 N. Serre, V. Feijóo, R. Fernández, N. Coma, M. Reverte, M. Iraizoz, R. Morales.- Diferencias en el perfil de los inmigrantes y no inmigrantes atendidos en Julio en el área de Atención al Viajero de la Unitat de Medicina Tropical I Salut Internacional Drassanes
- 56 J. Pardo, C. Carranza, T. Martín, R. López-Vélez, J.L. Pérez Arellano, M.C. Turrientes, A. Oleaga, A. Muro.- Esquistosomiasis importada en viajeros: análisis de 26 casos detectados por *AVA Sb ELISA*
- 57 J. Pardo, C. Carranza, J.L. Pérez-Arellano, R. López-Vélez, V. Ramajo, MC. Turrientes, O. Sanz, A. Muro.- Estudio clínico-serológico de la esquistosomiasis importada en inmigrantes
- 58 M. Peñaranda, M. Villalonga, M.A. Ribas, A. Ramirez, T. Serra, S. Riera, J. Murillas, C. Villalonga, J. Perez.- Study of immigrants with tuberculosis in a tertiary hospital over a five year period

**SESION DE DISCUSION DE POSTERS B1: MALARIA, COOPERACION,
SALUD INTERNACIONAL, VIGILANCIA EPIDEMIOLOGICA**

Presidencia: F. Carreras y J. Gálvez

Día: Domingo 18 de Julio

Sala: 13 F

Horario: 15.30-18.00

Comunicaciones Nos.: 59-83

- 59 A. de Lucio, P.J. Berzosa, E. Moyano, M. Moreno, A. Moreno, Z.G. Chen, S. Puente, A. Benito.- Diagnóstico y referencia de malarías importadas en el Laboratorio de Malaria del Centro Nacional de Microbiología desde 1997 hasta 2003
- 60 I. Valero, A. Pavon, M. Garcia, A. Andres, D. Garcia, J.E. Ballester, V. Abril, M. García del Toro, E. Ortega.- Tendencias del paludismo importado en España: experiencias en una Unidad de Salud Internacional (USI)
- 61 J.L. Pérez Arellano, J.M. Rubio, M. Hernández-Cabrera, C. Carranza, T. Guijo, O.E. Santana, A. Benito.- Síndrome nefrótico producido por *Plasmodium falciparum* en inmigrante guineano: diagnóstico mediante PCR
- 62 G. Sebastiani, A. Morillo, J. Pou, V. Fumadó.- Manejo de la malaria severa en UCI pediátrica
- 63 A. Bardají, C. Menéndez, X. Gómez Olivé, B. Sigauque, C. Romagosa, S. Amós, P.L. Alonso.- Malaria y embarazo: screening de malaria en embarazadas a través del sistema de detección pasiva de casos (DPC) de los Servicios de Salud Materno Infantil del Centro de Saúde de Manhiça, Mozambique
- 64 A. Guerra-Neira, J. Roche, P. Berzosa, J.M. Rubio, J. Raso, M. Edú, A. Benito.- Duración de los estudios *in vivo* de sensibilidad a los antipalúdicos en áreas de alta endemicidad palúdica: ¿14 ó 28 días?
- 65 A. Guerra-Neira, J. Roche, P. Berzosa, J.M. Rubio, J. Raso, M. Edú, A. Benito.- Ajuste de las resistencias a los antipalúdicos por la distinción entre recaídas y nuevas infecciones de *Plasmodium falciparum* utilizando genotipado con PCR en Malabo (Guinea Ecuatorial)
- 66 E. Calabuig, I. Oliveira, M. Velasco, M.E. Valls, J. Gascón, M. Corachán.- Utilización de primaquina a altas dosis en malaria por *Plasmodium vivax*

- 67 A. Guerra-Neira, L. García, J. Roche, J. Eneme, J.C. Mateos.- Comparación de la eficacia de la sulfadoxina/pirimetamina frente a la combinación sulfadoxina/pirimetamina-artesunate en el tratamiento del paludismo no complicado en Guinea Ecuatorial
- 68 A. González, E. Herrera, M. Hernández-Cabrera, A. Ojeda, J.F. Santana, A. Rivero Deán, J.L. Pérez-Arellano.- El intervalo entre el viaje y la consulta previa es insuficiente para una adecuada inmunoprofilaxis en más de la mitad de los viajeros a regiones de riesgo
- 69 J. V. de Julián-Ortiz, E. Besalú, R. García-Domenech.- Síntesis combinatoria virtual de análogos de artemisina
- 70 J. V. de Julián-Ortiz, N. Mahmoudi, J. Gálvez, R. García-Domenech.- Relaciones cuantitativas estructura-actividad en análogos de fosfolípidos
- 71 M.J. Martínez Vicente, S. Matos Duarte, J.C. Díaz Cabrera, R. Memba Etuba, J. Pujol Ribó.- Implantación de un sistema de información sanitaria en el Hospital General de Bata
- 72 M.J. Martínez Vicente, S. Matos Duarte, J.C. Díaz Cabrera, R. Memba Etuba, J. Pujol Ribó.- Indicadores cualitativos de un sistema de información de un Hospital General en Guinea Ecuatorial: mortalidad y morbilidad infecciosa
- 73 C. Ascaso, J.J. Aponte, A. Nhacolo, D. Nhalungo, R. Abellana, L. Lujan, P. Alonso.- Identificación de indicadores de desigualdades socioeconómicas asociados a la mortalidad infantil en Manhiça (Mozambique)
- 74 M. Espasa, J. González, J. Sacarlal, A. McArthur, I. Oliveira, P. Perdigão, P. Alonso.- Análisis descriptivo de la tuberculosis en una área de vigilancia demográfica en el Distrito de Manhiça (Mozambique). Mejora de los indicadores epidemiológicos de tuberculosis y establecimiento de una plataforma de investigación en tuberculosis
- 75 F. Moll Cervera, J.R. Gómez Echevarría.- Prevención de discapacidades y rehabilitación física para enfermos de lepra de la provincia de Jiangxi (China)
- 76 R. Sales Encinas, A. Iborra Bendicho, E. Malmierca Corral.- Vigilancia epidemiológica del VIH en Guinea Ecuatorial
- 77 M. Mínguez, I. Vera, M. Dávila.- Prevención y control de la legionelosis en buques: brotes asociados a cruceros internacionales
- 78 M. Ribell, I. Oliveira, M. Martínez, J.L. Pérez-Arellano, A. Angel-Moreno, M. Corachán, J. Gascón.- La Fiebra Q también viaja
- 79 A. González, E. Herrera, M. Hernández-Cabrera, A. Ojeda, J.F. Santana, A. Rivero Deán, J.L. Pérez-Arellano.- Unidades de Medicina Tropical y Servicios de Sanidad Exterior: ¿complementarios o redundantes en la prevención de enfermedades del viajero?
- 80 F. Carreras, M. Alonso, V. Camba.- Medidas adoptadas por Sanidad Exterior en fronteras ante el brote del SRAS
- 81 M. Mínguez, I. Vera, M. Dávila.- Nuevos riesgos para la salud pública mundial, Síndrome Respiratorio Agudo Severo (SRAS) y Reglamento Sanitario Internacional (RSI): implicaciones
- 82 F. Carreras, V. Camba, M. Alonso.- WWW -Viajes Internacionales y Salud /International Travel and Health
- 83 M. Alonso, F. Carreras, V. Camba.- Alertas Sanitarias Internacionales

SESION DE DISCUSION DE POSTERS C1: EPIDEMIOLOGIA

Presidencia: M. Portús y J.M. Jansà

Día: Domingo 18 de Julio

Sala: 14 F

Horario: 15.30-18.00

Comunicaciones Nos.: 84-110

- 84 M. Gozalbo, G. Trueba, M. Fornasini, M.V. Fuentes, M.D. Bargues, J.G. Esteban, S. Mas-Coma.- Encuesta coproparasitológica en escolares de la comunidad de Planchaloma (Provincia de Cotopaxi, Ecuador)
- 85 N. Sandoval, J.G. Esteban, C. Morán, M. Cornejo, H. Cornejo, J. Pardo, J. López-Abán, A. Muro.- Prevalencia de parasitosis gastrointestinales en comunidades urbanas y rurales de la República de Panamá
- 86 M. Khoubbane, P. Artigas, M.V. Periago, M.A. Garcia Bodelon, M. Arocas, M. El Sayed, A. El Shahat, A. El Wakeel, P. Barduagni, M.A. Valero, M.D. Bargues, S. Mas-Coma.- Viabilidad e infectividad del aislado humano de la zona endémica de Fascioliasis del Delta Del Nilo (Behera Governortate, Egipto)
- 87 M. Khoubbane, M.D. Bargues, M. El Sayed, A. El Shahat, A. El Wakeel, P. Barduagni, S. Mas-Coma.- Epidemiología de la Fascioliasis en Egipto: estudio comparado de los aislados de búfalo y vaca de *Fasciola gigantica*
- 88 M. Khoubbane, M.D. Bargues, P. Artigas, M.V. Periago, M. Desquesnes, M. El Sayed, A. El Shahat, A. El Wakeel, P. Barduagni, S. Mas-Coma.- Susceptibilidad de *Radix callaudi* de procedencia egipcia a la infestación por *Fasciola gigantica* originaria de Burkina Faso
- 89 M. Khoubbane, M.D. Bargues, K. Ashrafi, A.S. Moghaddam, A.B. Mansoorian, J.F. Massoud, M. Desquesnes, S. Mas-Coma.- Estudios de susceptibilidad cruzada entre moluscos Lymnaeidos iraníes y *Fasciola gigantica* de Bourkina Faso
- 90 P. Artigas, M.D. Bargues, S. Mas-Coma.- Morfología conquiológica de moluscos Lymnaeidos procedentes de los sectores Isluga, Rengo y Alazán (Chile)
- 91 M.A. Garcia-Bodelon, M. Arocas, M. Khoubbane, V. Periago, M. Panova, M. Navarro, M.A. Valero, M.D. Bargues, S. Mas-Coma.- Análisis experimental del desarrollo de Fasciólidos en pequeños animales de laboratorio
- 92 M.A. Garcia Bodelon, M. Arocas, M. Khoubbane, M.A. Valero, M.D. Bargues, S. Mas-Coma.- Cronobiología de emisión de huevos de *Fasciola* sp. en rata Wistar a partir de un aislado humano de Egipto
- 93 M.V. Periago, M. Panova, M.A. Valero, S. Mas-Coma.- Comparación morfológica de poblaciones alopatricas de adultos de *Fasciola hepatica* y *F. gigantica* de bovinos europeos y africanos
- 94 M.A. Iborra Bendicho, F. Mayo Avoro, C. Obama Mba, J. Alvar.- Etiología y epidemiología de las Enfermedades Diarreicas Agudas (EDA) en Guinea Ecuatorial

- 95 I. Mandomando, J. Gascon, M.P. Loscertales, X. Valles, J. Ruiz, E. Macete, F. Abacassamo, J. Sacarlal, S. Sanz, J.Vila, P.L. Alonso.- Etiología de las diarreas en niños menores de 5 años de edad ingresados en una zona rural del sur de Mozambique
- 96 P. Navarro, F. Cañas, J. Cabrera, A. Angel-Moreno, A.M. Martín, J.L. Pérez-Arellano.- Tuberculosis en inmigrantes en el Área Sur de Gran Canaria: un perfil diferente
- 97 E. Malmierca.- Epidemiología de la tuberculosis en Guinea Ecuatorial de 1990 a 2003
- 98 F. Abacassamo, A. Roca, Ll. Quintó, I. Mandomando, X. Vallès, P. Alonso.- *Haemophilus influenzae* en Manhiça (Mozambique): descripción epidemiológica previa a la implementación de una vacuna
- 99 C. Recio, E. Nakouné, P.M. Masamba, M.D. Mastica-Claquin, J.M. Escribà, E. García, E. Durán.- La primera epidemia por el virus de la hepatitis E (VHE) declarada en la República Centroafricana (RCA)
- 100 L. Triviño, J.M. Torres-Rodríguez, A. Martínez-Roig, C. Cortina, V. Belver, J.M. Jansa.- Prevalencia de *Tinea capitis* y *Tinea pedis* en niños de escuelas con gran número de inmigrantes en un distrito de bajo nivel socioeconómico de la ciudad de Barcelona
- 101 J. Cano, M. Moren, S. Nzambo, M. Ondo, L. Bobuakasi, J. Nazareth, F. Micha, A. Benito.- Transmisión del paludismo en dos localidades con baja densidad anofelínica (Bata, Guinea Ecuatorial)
- 102 J.M. Ramos, F. Reyes, A. Galata, A. Tesfamariam, F. Gutiérrez.- Cambio en la epidemiología de la malaria en una zona rural de Etiopía durante 5 años
- 103 J.M. Ramos, E. Malmierca, F. Reyes, A. Galata, A. Tesfamariam, M. Górgolas, F. Gutiérrez.- Características de la borreliosis transmitida por piojos en una zona rural de Etiopía
- 104 M. Flores, J. Postigo, I. Cruz, S. Ortega, L. Brutus, D. Shneider, A. Aransay, R. Molina, M. Rodríguez, C. Cañavat, J. Alvar.- Encuesta epidemiológica sobre la Leishmaniasis y Tripanosomiasis americanas en Bermejo, yungas del sur de Bolivia
- 105 C. Riera, R. Fisa, T. Serra, C. Lloret, P. López Chejade, M. Mascaró, T. Jimenez, M. Sedeño, J. Muncunill, E. Girona, M. Udina, M. Gállego, J. Carrió, M. Portús.- Prevalencia de la infección críptica por *Leishmania infantum* en donantes de sangre de Mallorca (Islas Baleares, España)
- 106 O. González-Moreno, M. Gracenea, M. Espuña, N. Crespo, J. Rodríguez, J.A. Güell Oliva.- Datos acerca de la prevalencia de cryptosporidiosis en pacientes ambulatorios en Cataluña
- 107 M.T. Llorente, A. Clavel, M. Varea, S. Olivera, J. Sahagún.- Estacionalidad de la criptosporidiosis en Aragón (España nororiental)
- 108 E. Rodríguez, M. Rodríguez, M. Escalante, M.J. Perteguer, E. García, F.M. Ubeira, T. Gárate.- Brote de triquinosis por *Trichinella britovi* en Madrid
- 109 J. Tay, J. Sánchez-Vega, D. Ruiz-Sánchez, L. Calderón-Romero, Y. García-Yáñez, T. Alonso-Guerrero, J. Martínez-Chacón, C. Rivas-García.- Estado actual de nuestros conocimientos sobre trichinellosis en la República Mexicana. Reporte de nuevas localidades infectadas
- 110 J. Mas, M. Martínez, C. Ascaso, G. Escaramis, A. Sima, P.R. Nkogo, R. Nguema, E. Mba, M.D. Untoria.- Distribución geográfica y abundancia del género *Chrysops* (Diptera:Tabanidae) vector potencial de *Loa loa* en la isla de Bioko, Guinea Ecuatorial: estudio preliminar

SESION PLENARIA: INAUGURACION DEL IX EUROPEAN MULTICOLLOQUIUM OF PARASITOLOGY (EMOP 9) Y DEL VII INTERNATIONAL MEETING ON MOLECULAR EPIDEMIOLOGY AND EVOLUTIONARY GENETICS OF INFECTIOUS DISEASES (MEEGID 7)

Día: Lunes 19 de Julio
Horario: 10.00-12.00

Sala: Palacio de Congresos, Gran Auditorium
Comunicaciones Nos.: Conferencias Plenarias 1 y 2

Conferencias plenarias:

11.00-11.30:

Mirtha Roses - Director General, Panamerican Health Organization, Washington DC, USA

11.30-12.00:

Janet Hemingway – Director, Liverpool School of Tropical Medicine, Liverpool, UK

SESION DE COMUNICACIONES ORALES A2: ENFERMEDADES INFECCIOSAS IMPORTADAS

Presidencia: R. López-Vélez y A. Sarrión

Día: Lunes 19 de Julio
Horario: 15.00-17.30

Sala: Aula 13 F
Comunicaciones Nos.: 111-120

- 111 D. Torrús, A. Tello, R. Sánchez, M.A. Arroyo, M. Andreu.- Consulta de Enfermedades Importadas y Parasitología Clínica (CEIPC) del Hospital General Universitario de Alicante (HGUA): análisis de la actividad asistencial en el periodo Junio 2000 – Febrero 2004
- 112 J. Gascón, J.M. Torres, M. Jiménez, T. Mejías, L. Triviño, F. Gobbi, Ll. Quintó, J. Puig, M. Corachán.- Infección por *Histoplasma capsulatum* en viajeros españoles a América Latina

- 113 I. Clavería, N. Serre, N. Coma, J. Gómez, B. Treviño, R. Fernández.- ¿Es necesario adoptar nuevas estrategias para el control de la tuberculosis importada? Experiencia en la Unidad de Medicina Tropical y Salud Internacional de Drassanes en los años 2002-2003
- 114 D. Torrús, J.M. Seguí, I. López-Azkarreta, M. Andreu, M.A. Arroyo, R. Sánchez, C. Escoín, A. Tello.- Evaluación de la eosinofilia en pacientes procedentes de países tropicales
- 115 S. Puente, A. Morente, M. Subirats, J. Gascón, J.M. González Lahoz.- Cyclosporiasis: brote epidémico adquirido en Antigua, Guatemala
- 116 A. Grau, E. Borrajo, F. Zarzuela, A. Torres, M. Gonzalez, J. Cabezos.- Parásitos intestinales de los inmigrantes que se visitan en atención primaria
- 117 D. Torrús, J.M. Seguí, S. Abad, Y. Calero, S. Ezsol.- Parasitosis intestinales importadas de regiones tropicales: experiencia del Hospital General Universitario de Alicante (HGUA)
- 118 B. Carrilero, J.M. Ramos, J. Gómez, J. Rodenas.- Enfermedades parasitarias viscerales en pacientes ingresados en el Hospital Universitario Virgen de la Arrixaca, Murcia
- 119 M.C. Turrientes, A. Sáenz de Sta María, E. Ceballos, M. Díaz, M. Barreno, A. Muro, J. Pardo, R. López-Vélez.- Fasciolosis importada y autóctona
- 120 S. Puente, F. Bru, J. Alonso-Babarro, J.F. Pascual-Pareja, M. Lago, J.M. González-Lahoz.- Larva migrans cutánea (LMC): 52 casos

SESION DE DISCUSION DE POSTERS A2: BIOLOGIA MOLECULAR, INMUNOLOGIA, TECNICAS APLICADAS AL ESTUDIO DE INFECCIONES Y CONTROL VECTORIAL

Presidencia: A. Clavel y A. Vilella

Día: Lunes 19 de Julio

Sala: 14 F

Horario: 15.00-18.00

Comunicaciones Nos.: 121-144

- 121 J. Sahagún, A. Clavel, M.T. Llorente, M. Varea, S. Capilla, C. Seral.- Correlación entre la presencia de síntomas en la giardiosis humana y el genotipo de *Giardia duodenalis*
- 122 M.T. Llorente, A. Clavel, M. Varea, J. Sahagún, S. Olivera, M.C. Rubio.- Caracterización genética de aislados de *Cryptosporidium* obtenidos de seres humanos en Aragón (España nororiental)
- 123 I. Fuentes, M. Rodríguez, C. Ladrón de Guevara, C. Pérez, F. Del Castillo, M.J. Gutierrez, J.M. Rubio.- Caracterización genómica de cepas de *Toxoplasma gondii* asociadas a casos de toxoplasmosis humana en España
- 124 A. Guerra-Neira, J.M. Rubio, J. Roche, J. Cano, A. Sarrión, A. Benito.- Variabilidad genética de *Plasmodium falciparum* en tres poblaciones de la isla de Bioko (Guinea Ecuatorial) con diferente grado de aislamiento
- 125 E. Ferrer, L.M. González, M. Foster, M.M. Cortéz, I. Dávila, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Caracterización molecular de un antígeno de tegumento de metacestodos de *Taenia solium*
- 126 E. Ferrer, L. Benítez, M.M. Cortéz, I. Dávila, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Aplicación de péptidos sintéticos en el inmunodiagnóstico de cisticercosis
- 127 E. Ferrer, J.A. Martínez-Escribano, M.E. González-Barderas, P. Resino, M.M. Cortéz, I. Dávila, M. Foster, L.M. González, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Expresión en células y larvas de insectos (sistema Baculovirus) de un antígeno de excreción/secreción de metacestodos de *Taenia solium* relevante en diagnóstico
- 128 N. Villalobos, L.M. González, R. Alamo Sanz, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Identificación de cestodos larvarios en ganado vacuno y porcino mediante herramientas moleculares
- 129 C. Carranza, M. Riaño, J. Pardo, O. Sanz, A. Angel-Moreno, A. Muro, J.L. Pérez-Arellano.- Enzima convertidora de la angiotensina sérica en el inmigrante con eosinofilia: utilidad diagnóstica
- 130 A. Clavel, C. Seral, M.T. Llorente, J. Sahagún, F.J. Castillo, A. Rezusta, M.C. Rubio, M.J. Revillo.- Diagnóstico de la amebosis intestinal con el kit TechLab *Entamoeba histolytica* II en muestras fecales en Zaragoza (España nororiental)
- 131 M.J. Gutiérrez, R. Cogollos, A. Alhambra, I. Fuentes.- Evaluación de la detección de antígenos de *Entamoeba histolytica* mediante una técnica de ELISA comercial como complemento a la microscopía tradicional
- 132 J. Ordás, F. Pérez, A. Rodríguez, M. Oña, S. Melón, F.J. Méndez, F. Vázquez.- Diagnóstico de tricomoniasis mediante PCR: valoración en un estudio clínico
- 133 I. Cruz, C. Chicharro, J. Cuadrado, E. García, C. Cañavate, J. Alvar.- Estudio comparativo para el diagnóstico de la leishmaniasis visceral: procedimientos no-invasivos (KAtex y LnPCR en sangre) versus métodos gold standard (cultivo y microscopía de médula ósea)
- 134 C. Chicharro, J. Nieto, E. García, I. Cruz, C. Cañavate, M. Flores, J. Cuadrado, J. Alvar.- Epidemiología de la leishmaniasis canina en Ibiza (Islas Baleares): estudio comparativo de diferentes métodos de diagnóstico
- 135 J. Carcelén, I. Molano, V. Iniesta, I. Corraliza, E.M. Pérez, J. Jiménez, J.M. Usón, M. Mangas, I. Monroy, L.C. Gómez-Nieto.- Uso de técnicas laparoscópicas en el diagnóstico y valoración pronóstica de la leishmaniasis canina
- 136 I. Cruz, E. Carrillo, J. Cuadrado, J. Moreno, C. Cañavate, J. Alvar.- Real-Time PCR para el diagnóstico y determinación de la carga parasitaria en la leishmaniasis humana y canina
- 137 L.M. González, I. Fuentes, N. Villalobos, S. Puente, T. Gárate.- Diagnóstico diferencial de teniasis humanas en el Servicio de Parasitología del Centro Nacional de Microbiología del Instituto de Salud Carlos III
- 138 M.J. Perteguer, G. Ortiz, E. García, M. Flores, E. Rodríguez, F.M. Ubeira, T. Gárate.- Aplicación de técnicas moleculares para el diagnóstico de un caso de Anisakidosis humana aguda

- 139 C. Carranza, J. Pardo, M. Hernández Cabrera, T. Martín, A.M. Martín, A. Muro, J.L. Pérez-Arellano.- Especificidad del ICT Filariasis (Binax®) en el diagnóstico de la infección por *Wuchereria bancrofti*
- 140 J. Cano, N. Ndong-Mabale, P. Ndong.- Aplicación de los sistemas de información geográfica en el estudio de la transmisión de la tripanosomiasis humana africana en Guinea Ecuatorial
- 141 M. Moreno, J. Cano, S. Nzambo, L. Bobuakasi, J.N. Buatiche, M. Ondo, F. Micha, Z.G. Chen, A. Benito.- Malaria Panel Assay vs PCR: detección de *Anopheles melas* naturalmente infectados en una localidad costera en Guinea Ecuatorial
- 142 J. Cano, N. Ndong-Mabale, P. Ndong.- Eficacia de las trampas piramidales (Lancien & Gouteux, 1986) en el control de la transmisión de la tripanosomiasis humana africana en Guinea Ecuatorial
- 143 J. Cano, N. Ndong-Mabale, P. Ndong.- Empleo de pantallas impregnadas con deltametrina en el control de la transmisión de la tripanosomiasis humana africana en Guinea Ecuatorial
- 144 M.A. Rodríguez-Pérez, M. Almora-Hinojosa, C. Lizarazo-Ortega.- Rotavirus detection in drinking water in a Mexico-USA border city

SESION DE DISCUSION DE POSTERS B2: BIOLOGIA MOLECULAR, INMUNOLOGIA, RESISTENCIAS, TERAPEUTICA, CULTIVOS DE LABORATORIO Y RESERVORIOS ANIMALES

Presidencia: J. Guisantes y A. Muro

Día: Lunes 19 de Julio

Sala: 15 F

Horario: 15.00-18.00

Comunicaciones Nos.: 145-170

- 145 E. Moyano, L.M. González, P. Berzosa, Z.G. Chen, A. Benito.- Caracterización de antígenos de *Plasmodium falciparum* a partir del inmunocribado de una genoteca de expresión
- 146 I. Molano, J. Carcelén, C. Cámara, J. Viñuelas, V. Iniesta, I. Corraliza, M. Mangas, I. Monroy, L.C. Gómez-Nieto.- Disproteïnemia y respuesta de anticuerpos frente a proteínas recombinantes como marcadores de valor pronóstico en leishmaniosis canina por *Leishmania infantum*
- 147 V. Iniesta, J. Carcelén, I. Molano, M. Mangas, E. Redondo, L.C. Gómez-Nieto, I. Monroy, I. Corraliza.- Implicaciones de la inducción de la enzima arginasa I en el desarrollo de la resistencia y susceptibilidad frente a la infección por *Leishmania major*
- 148 E. Rodríguez, M.J. Perteguer, P. Bonay, E. Pozio, F.M. Ubeira, T. Gárate.- Caracterización genómica y análisis de la expresión del antígeno TSL-1 gp53 en las especies de *Trichinella* encapsuladas y no encapsuladas
- 149 E. Rodríguez, P. Bonay, M.J. Perteguer, E. Pozio, T. Gárate.- Estructura genómica y expresión diferencial de la GTPase Rab4 de *Trichinella pseudospiralis* en especies encapsuladas y no encapsuladas de *Trichinella*
- 150 N. Villalobos, E. Ferrer, L.M. González, M.M. Cortéz, C.M. Aguilar, R.M.E. Parkhouse, T. Gárate.- Aislamiento y caracterización de cDNAs a partir de una genoteca de expresión de ésclex y cuello de adulto de *Taenia solium*
- 151 E. Ferrer, J.A. Martínez-Escribano, M.E. González-Barderas, P. Resino, M.M. Cortéz, I. Dávila, L. Benítez, L.M. González, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Expresión en el sistema Baculovirus de un antígeno protector de 18 kDa secretado por oncosferas de *Taenia saginata*, evaluación de su antigenicidad y comparación con su expresión en el sistema procariota
- 152 G. Ortiz, E. Rodríguez, M.J. Perteguer, F.M. Ubeira, T. Gárate.- Antígenos recombinantes de *Anisakis simplex* con posible importancia biológica en la relación parásito-hospedador
- 153 J.A. Ruiz, P.P. Simarro, G. Bassets, S. Mbadingai.- Eficacia del Melarsoprol en el tratamiento de la Tripanosomiasis Humana Africana en Haut Mbomou, Republica Centroafricana (RCA): resultados preliminares
- 154 E. Pisos, O. Sanz, M. Hernández-Cabrera, A. Angel-Moreno, Z. Redondo, A. Hernández, J.L. Pérez-Arellano.- Pauta Rifampicina/Piracinamida (2 meses) en el tratamiento de la tuberculosis latente en inmigrantes subsaharianos irregulares: pocas complicaciones pero escaso cumplimiento
- 155 J. Ruiz, I. Oliveira, F. Marco, M. Corachan, J. Vila, J. Gascón.- Evolución de la resistencia a antimicrobianos en cepas de *Campylobacter* spp. causantes de diarrea del viajero (1993-2003)
- 156 I. Mandomando, X. Valles, M. Espasa, S. Sanz, J. Ruiz, J. Gascon, M. Levine, P.L. Alonso.- Caracterización y susceptibilidad a antimicrobianos de cepas de *Shigella* spp. y *Salmonella* spp. aisladas en niños menores de 5 años en una zona rural del sur de Mozambique
- 157 J. Ruiz, I. Mandomando, P. Esquivel, J. Vila, J. Gascón, P.L. Alonso.- Mecanismos moleculares de resistencia a antimicrobianos en cepas de *Salmonella typhimurium* causantes de bacteriemia en niños menores de 5 años en el sur de Mozambique
- 158 I. Mandomando, X. Valles, D. Quelhas, J. Ruiz, S. Sanz, J. Vila, J. Gascon, P. Alonso.- Resistencia antimicrobiana en patógenos diarreogénicos de una area rural del sur de Mozambique
- 159 L. Calderón-Romero, J. Tay, D. Ruiz-Sánchez, J. Sánchez-Vega, F. Ibarra.- Evaluación del crecimiento de *Trypanosoma cruzi* en diferentes medios de cultivo
- 160 W. Strauss.- Viabilidad de la cepa RH de *Toxoplasma gondii* en condiciones extrabiológicas
- 161 M.F. Brazil dos Santos, P. Morera, J.R. Gil, S. Azzouz, M. Maache, A. Osuna.- Diferencias de las alteraciones patológicas producidas en la infección experimental por *Angiostrongylus costaricensis* en dos cepas de ratones, BALB/c y C57BL/6
- 162 M. Mangas, J. Carcelén, I. Molano, V. Iniesta, I. Corraliza, A. Gomez, L. Gómez, I. Monroy, L.C. Gómez-Nieto.- Análisis de la poliartritis asociada a las formas susceptibles de la leishmaniosis canina por *Leishmania infantum*
- 163 I. Molano, J. Carcelén, V. Iniesta, I. Corraliza, M. Mangas, I. Monroy, L.C. Gómez-Nieto.- Vacunación contra la leishmaniosis canina con la proteína recombinante Quimera (PQ) de *Leishmania infantum* (I): protección clínica, inmunológica y parasitológica

- 164 I. Molano, J. Carcelén, V. Iniesta, I. Corraliza, M. Mangas, E. Redondo, I. Monroy, L.C. Gómez-Nieto.- Vacunación contra la leishmaniosis canina con la proteína recombinante Quimera (PQ) de *Leishmania infantum* (II): estudio patológico e histopatológico
- 165 A. Montoya, I. Fuentes, S. Jiménez, C. Frisuelos, M. Mateo, A. Pérez, G. Miró.- Prevalencia de parásitos intestinales en gatos vagabundos, gatos de explotación y gatos de propietario en España
- 166 A. Montoya, G. Miró, S. Jiménez, C. Frisuelos, M. Mateo, A. Pérez, I. Fuentes.- Seroprevalencia de *Toxoplasma gondii* en gatos vagabundos, gatos de explotación y gatos de propietario en España
- 167 A. Montoya, G. Miró, S. Jiménez, M. Mateo, C. Frisuelos, C. Ramírez, I. Fuentes.- Caracterización genotípica de cepas de *Toxoplasma gondii* aisladas de gatos vagabundos, de explotación y de propietario, en España
- 168 I. Fuentes, A. Montoya, A.L. García-Pérez, C. Ramírez, M. Rodríguez, J.F. Barandika, J.M. Rubio.- Caracterización genotípica de *Toxoplasma gondii* aisladas de óvidos en España: comparación de aislados procedentes de abortos frente a los procedentes de óvidos adultos asintomáticos
- 169 A.L. Ruano, W.A. Martins, A.L. de Melo, J. López-Abán, T. Martín, J.L. Pérez-Arellano, A. Muro.- Evaluación de la infección con *Strongyloides venezuelensis* en un modelo experimental murino
- 170 A.L. Ruano, J. López-Abán, T. Martín, A.L. de Melo, W.A. Martins, J.L. Pérez-Arellano, A. Muro.- Marcadores de enfermedad en un modelo experimental de *Strongyloides venezuelensis*

SESION PLENARIA: SIMPOSIO SOBRE BIOTERRORISMO, GRANDES AMENAZAS EPIDEMICAS Y BIOSEGURIDAD: SESION I (PROBLEMÁTICA Y AGENTES)

Presidencia: A.M. Marty (USA) y S. Mas-Coma (España)

Día: Martes 20 de Julio
Horario: 8.30-10.30

Sala: Auditorium
Comunicaciones Nos.: 171-174

- 171 A.M. Marty.- Recent challenges in infectious diseases: biological pathogens as weapons and emerging endemic threats
- 172 G. Gouvras.- Bioterrorism: the European Union response
- 173 F.B. Grieder, B.A. Schoneboom.- Bioterrorism: viral agents as weapons of mass destruction
- 174 G. Goma.- Biological weapons and microbial engineering bioprocessing. A survey to control dual use material

SESION PLENARIA: SIMPOSIO SOBRE BIOTERRORISMO, GRANDES AMENAZAS EPIDEMICAS Y BIOSEGURIDAD: SESION II (AGENTES Y FUNCIONES DEL CDC EUROPEO)

Presidencia: G. Gouvras (EC), M. Tibayrenc (Francia) y J. Alvar (España)

Día: Martes 20 de Julio
Horario: 11.00-13.30

Sala: Auditorium
Comunicaciones Nos.: 175-179

- 175 M. Tibayrenc.- The need for a European Centre for Infectious Diseases with large competences and coordination capacities
- 176 G. Gouvras.- The European Centre for Disease Prevention and Control
- 177 I.G. Shemyakin, S.A. Dubiley.- Targeting the anthrax toxin complex: development of new detection, prophylaxis, and treatment strategies
- 178 D. Akbulut, K.A. Grant, J. McLauchlin.- Development and application of real-time PCR assays to detect fragments of the *Clostridium botulinum* types A, B and E neurotoxin genes for public health microbiology including deliberate release
- 179 R.H. Pastel.- Psychological aspects of weapons of mass disruption (WMD)

SYMPOSIO SOBRE BIOTERRORISMO, GRANDES AMENAZAS EPIDEMICAS Y BIOSEGURIDAD: SESION III (PARASITOS Y BIOTERRORISMO Y CIENCIA FORENSE)

Presidencia: R. Houin (Francia) y L.R. Ash (USA)

Día: Martes 20 de Julio
Horario: 15.00-17.00

Sala: Aula 13 F
Comunicaciones Nos.: 180-183

- 180 L.R. Ash.- The role of parasites as potential bioterrorism agents
- 181 J.A. Guisantes.- Long-term bioterrorism: potential use of *Echinococcus* species
- 182 L.R. Ash.- Parasitology proficiency testing: origins, objectives and problems
- 183 G. Jayashanker, P. Jayakrishna, A.B.R. Tripathi, V. Venugopal, C.N. Bhattacharya.- Biological agents and forensic science

SESION PLENARIA: SIMPOSIO SOBRE BIOTERRORISMO, GRANDES AMENAZAS EPIDEMICAS Y BIOSEGURIDAD: SESION IV (BIOSEGURIDAD)

Presidencia: R.C.A. Thompson (Australia) y J.F. Sluiter (Países Bajos)

Día: Martes 20 de Julio
Horario: 17.30-19.00

Sala: 13 F
Comunicaciones Nos.: 184-186

- 184 R.C.A. Thompson.- Parasites and biosecurity: an overview
185 E. Pozio.- Biosecurity for emerging zoonotic parasites: *Leishmania*, *Trichinella*, *Angiostrongylus* and *Echinococcus*
186 S. Harrus.- Emergence and spread of vector-borne parasites

**SESION DE COMUNICACIONES ORALES A3: TUBERCULOSIS,
RESISTENCIAS BACTERIANAS, SIDA Y SALUD PUBLICA**

Presidencia: C. Menéndez y R. Angles

Día: Martes 20 de Julio

Sala: Aula 14 F

Horario: 15.00-17.00

Comunicaciones Nos.: 187-194

- 187 A.E. Navarro, E. López, M. Sanhauja, M.L. Puig.- Disminución de la incidencia infecciosa como causa de exclusión, en donantes del Centro de Transfusión de la Comunidad Valenciana del área de Castellón
- 188 A. Orcau, J. Edisson, J.M. Jansà, J.A. Caylà, J. Gómez, J. González.- Análisis de la tuberculosis en una gran ciudad: influencia de los nuevos inmigrantes
- 189 M.E. Mendez Arancibia, J. Ruiz, J. Gascón, J. Vila.- Evolución de la prevalencia y de la resistencia antibiótica de *Escherichia coli* enteroagregativo y *E. coli* enterotoxigénica causantes de diarrea de viajero
- 190 R. Cabrera, J. Ruiz, M. Ramírez, L. Bravo, A. Fernández, A. Echeíta, J. Gascón, P.L. Alonso, J. Vila.- Mecanismos moleculares de resistencia en cepas esporádicas de *Salmonella* spp. causantes de gastroenteritis aguda en Cuba
- 191 R. Bekkali, E. Grau, X. Mas.- Apoyo al programa de maternidad sin riesgo en la provincia de Tetuán bajo el modelo de los tres retrasos, Marruecos 2000-2003
- 192 M. Llach, E. Grau, R. Sala, X. Mas, P. Alonso.- Mortalidad materna en la Provincia de Tetuán, Marruecos 1996-2002
- 193 C. Ascaso, J.J. Aponte, R. Abellana, L. Lujan.- Identificación de indicadores de desigualdades socioeconómicas asociados a la mortalidad infantil en Manhiça (Mozambique)
- 194 A. Berenguera, J. Gascón, C. Menéndez, A. Bardají, A. Espiwa, E. Bilana, L. Nhancale, P.L. Alonso.- Experiencia de un gabinete de asesoramiento y testage voluntario (GATV) para un programa de prevención de transmisión vertical en una zona rural en el Sur de Mozambique, Manhiça: análisis descriptivo de los primeros 6 meses

ASAMBLEA GENERAL DE LA SEMTSI

Día: Miércoles 21 de Julio

Lugar: Facultad de Farmacia

Horario: 15.00-19.30

Sala: 16 I

CEREMONIA DE CLAUSURA

Ceremonia compartida con EMOP 9 y MEEGID 7

Día: Jueves 22 de Julio

Lugar: Facultad de Farmacia

Horario: 17.30-19.30

Sala: Auditorium

PROGRAMA DE SYMPOSIA Y SESIONES COMPARTIDOS CON EMOP IX (sesiones en inglés)

Symposium *Plasmodium*, *Anopheles* and Malaria: A Multidisciplinary Approach
Symposium *Leishmania*, Phlebotomines and Leishmaniasis Control
Symposium Trypanosomes, Triatomines and Chagas Disease: Basic Knowledge and Applied Research
Symposium on African Trypanosomiasis
Symposium on *Giardia* Biology and Molecular Genotyping
II K.E. Mott Symposium on Schistosomiasis and Distomatoses
Symposium on Taeniasis, Cysticercosis and Other Metacestodes
Symposium on Echinococcosis
Symposium New Insights into Filarial Nematodes: From Biology to Pathogenesis and Control
Symposium on Ticks and Tick-Borne Diseases
Symposium on Parasites of Medical Importance
Symposium Parasites, Pregnancy and Congenital Infection
Symposium on Opportunistic and Emerging Parasitoses and Mycoses
Symposium on AIDS and Parasitic Infection
Monographic Session on Research on Antiparasitic Compounds
Monographic Session on Infectious Diseases

Lunes 19 a Jueves 22 de Julio de 2004

INDICE GENERAL DE COMUNICACIONES COMPARTIDAS SEMTSI 4 – EMOP 9

SYMPOSIUM *PLASMODIUM*, *ANOPHELES* AND MALARIA: A MULTIDISCIPLINARY APPROACH

Organisers: C. Carnevale (France) and S. Mas-Coma (Spain)

Supported partially with funding from Inesfly S.L. Ingeniería de Salud and Horizon Scientific Press

SESSION 1: GENOMICS OF *PLASMODIUM*: NEW INSIGHTS

Chairs: J. Carlton (USA), M.J. Gardner (USA) and F. Renaud (France)

Date: Wednesday, July 21, 2004

Location: Room 13F

Time: 8.30-10.30

Communication EMOP Nos.: 16-21

Keynote Communications:

- 16 M.J. Gardner.- Insights into *Plasmodium* biology derived from genome sequencing, functional genomics, and proteomics
17 V.E. do Rosário.- Molecular biology in basic and applied research in malaria: questions raised from field studies

Free Oral Papers:

- 18 J.P. Cramer, F.P. Mockenhaupt, I. Möhl, S. Dittrich, E. Dietz, R.N. Otchwemah, S. Ehrhardt, U. Bienzle, T. Jelinek.- Allelic dimorphism of the erythrocyte binding antigen-175 (*eba-175*) gene of *Plasmodium falciparum* and severe malaria: significant association of the C-segment with fatal outcome in Ghanaian children
- 19 J.P. Cramer, F.P. Mockenhaupt, A.K. Nussler, J. Burkhardt, S. Ehrhardt, R.N. Otchwemah, E. Dietz, U. Bienzle.- Nitric oxide levels and *iNOS* gene promoter variants in severe malaria anemia versus cerebral malaria: one parasite, two diseases?
- 20 M.C. Leclerc, M. Menegon, A. Cligny, J.L. Noyer, S. Mammadov, N. Aliyev, E. Gasimov, G. Majori, C. Severini.- Polymorphism analysis of circumsporozoite protein (CS) and merozoite surface protein 1 (MSP-1) genes in *Plasmodium vivax* isolates from Azerbaijan
- 21 P.J. Berzosa, A. Guerra-Neira, A. de Lucio, E. Moyano, Z.G. Chen, A. Benito.- Study of mutations in DHFR, DHPS genes and their association with malaria resistance to sulfadoxine / pyrimethamine combination in samples from Bata (Equatorial Guinea) in 2002

SESSION 2: MALARIA VACCINE DEVELOPMENT PROBLEMATICS**Chairs: P. Carnevale (France), M.E. Patarroyo (Colombia) and S. Mas-Coma (Spain)**Date: Monday, July 19, 2004
Time: 15.00-16.00Location: Auditorium
Communication EMOP No.: 22**Keynote Communication:**

- 22 M.E. Patarroyo.- Present and future of malaria vaccines

SESSION 3: MALARIA: TRENDS IN IMMUNOLOGY (I)**Chairs: M. Hommel (UK) and R. Wang (USA)**Date: Monday, July 19, 2004 Location: Auditorium
Time: 16.30-18.00

Communication EMOP Nos.: 23-25

Keynote Communication:

- 23 M. Hommel.- Trends in malaria immunology

Free Oral Papers:

- 24 R. Wang, M. Arevalo-Herrera, M.J. Gardner, A. Bonelo, L. Soto, J. Vergara, J. Carlton, S. Bidwell, O. Vera, A. Gomez, A. Domingo, S. Herrera, C.M. Fraser.- Immune responses to *Plasmodium vivax* in Duffy negative humans
- 25 E.I.M. Khater, J.T. Dessens, R.E. Sinden.- PbIMC1a: a cytoskeletal protein essential for malaria sporozoite infectivity

SESSION 4: MALARIA: TRENDS IN IMMUNOLOGY (II)**Chairs: M. Suzuki (Japan) and O. Noya (Venezuela)**Date: Tuesday, July 20, 2004
Time: 15.00-17.00Location: Room 18F
Communication EMOP Nos.: 26-32**Keynote Communication:**

- 26 M. Suzuki.- Research activities in Japan with special reference to vaccine study and immunology of malaria

Free Oral Papers:

- 27 M. Kaestli, A. Cortez, I. Cockburn, H.P. Beck.- *Plasmodium falciparum* erythrocyte membrane protein (PfEMP1): expression in naturally occurring infections in Papua New Guinea
- 28 A. Moreno, M. Moreno, J. Moreno, C. Eguiluz, N. van Rooijen, Z.G. Chen, A. Benito.- An improved immunomodulated mouse model for human malaria erythrocytic stages
- 29 A. Wide, G. Certad, J. Capaldo, M. Romero, E. Fernández, R. Alfonso, C. Vásquez, C. Castro, O. Noya.- Characterization of the humoral immune response and its association with the therapeutic response to chloroquine in *P. falciparum* infection
- 30 B.Y.M. Nour, H.D.F.H. Schallig, G.J. Schoone, O.K. Saeed, A.A. Mohamadani.- Screening of blood bank samples for the presence of malaria parasites by conventional methods and quantitative nucleic acid sequence based amplification (QT-NASBA) assay
- 31 B. Kazemi, M. Najari, E. Saneimoghaddam, M. Bandehpour, N. Seyed, K. Sharifi.- Detection of *Plasmodium* parasites in healthy blood donors
- 32 H. Nahrevanian.- The proliferation of macrophages in spleen as a target organ is associated with high level of nitric oxide production during murine malaria infection

SESSION 5: MALARIA: TRENDS IN ENTOMOLOGY (I)**Chairs: V.E. do Rosario (Portugal) and M. Akogbeto (Benin)**

Date: Wednesday, July 21, 2004

Location: Room 13F

Plenary Lecture (Monday, July 19, 2004: 10.00-12.00, Convention Centre):

33 J. Hemingway.- Molecular Trends in Entomology

Free Oral Papers:

- 34 Z. Annan, P. Durand, F. Simard, H.P. Awono-Ambene, F. Renaud, D. Fontenille.- *Plasmodium*-Anopheline specificity: a field study in natural populations of Cameroon
- 35 A. Cohuet, I. Dia, F. Simard, M. Raymond, F. Rousset, C. Antonio-Nkondjio, P.H. Awono-Ambene, C.S. Wondji, D. Fontenille.- Adaptive role of chromosomal inversions in malaria vector *Anopheles funestus* populations from Cameroon
- 36 G. Favia, I. Ricci, M. Casiraghi, E. Sanogo-Ilboudo, V. Curioni, F. Esposito.- Sequence analysis of the *Anopheles gambiae* arrestin gene (*AgArr1*) in four anophelines species
- 37 F. Lombardo, T. Nolan, G. Lycett, A. Lanfrancotti, N. Stich, F. Catteruccia, C. Louis, M. Coluzzi, B. Arcà.- An *Anopheles gambiae* salivary gland promoter analysis in transgenic mosquitoes and fruit flies
- 38 G. Le Goff, V. Rajaonarivelo, D. Fontenille, J.P. Dujardin.- Malagasy populations of *Anopheles funestus* recognized by their wing geometry
- 39 M. Akogbeto, H. Noukpo.- Similarities and ecological divergences between chromosomal and molecular forms of *Anopheles gambiae s.s.*
- 40 M.A. Oshaghi, G.H. Vaezi, M.T. Moradi, H. Vatandoost.- Nested-PCR assay for detection of malaria sporozoites revealed that *Anopheles stephensi* is the main vector of malaria in Chabahar district, Iran
- 41 M.A. Oshaghi, M.Z. Yaghoobi-Ershadi, K. Shemshad, M.R. Abaei, K. Akbarzadeh.- Mitochondrial and ribosomal DNA sequence variation between *Anopheles superpictus* populations in Iran

SESSION 6: MALARIA: TRENDS IN ENTOMOLOGY (II)**Chairs: A. della Torre (Italy) and C. Walton (UK)**

Date: Wednesday, July 21, 2004

Location: Room 13F

Time: 15.00-17.00

Communication EMOP Nos.: 42-47

Free Oral Papers:

- 42 F. Santolamazza, G. Gentile, Z. Tu, Y. Qi, A. Caccone, V. Petrarca, A. della Torre.- Genetic differentiation of the molecular forms of *Anopheles gambiae sensu stricto*
- 43 F. Santolamazza, G.C. Carrara, M. Calzetta, P. Avellino, M.A. Di Deco, A. della Torre, V. Petrarca.- Preliminary data on the *Anopheles gambiae* complex (Diptera: Culicidae) in Angola
- 44 C. Walton, P. Somboon, R.E. Harbach, Y. Linton, R.K. Butlin, E. Parkin, I. Weerasinghe, S. Chawprom.- Molecular identification of *Anopheles* mosquitoes in southern Asia
- 45 M. Pombi, A. Cossu, I. Bassole, O. Ouédraogo, L. Seganti, M. Coluzzi, N.F. Sagnon, C. Costantini.- Microbiological and physico-chemical profiling of *Anopheles gambiae* larval habitats in an arid savannah village of Burkina Faso
- 46 M.C. Akogbeto, F. Rousseau, H. Noukpo, A. Odjo.- Screening of pesticide residues in soil and water samples from agricultural settings
- 47 H. Vatandoost, M. Mashayekhi, M.R. Abai, M.R. Aflatoonian, M.A. Oshaghi, A.A. Hanafi-Bojd, G. Zamani, I. Sharifi.- Current malaria epidemiology in a malarious area, Kerman province, south-east Iran

SESSION 7: TRENDS IN MALARIA CONTROL (I)**Chairs: P. Carnevale (France), P. Guillet (WHO) and P. Alonso (Spain)**

Date: Thursday, July 22, 2004

Location: Room 13F

Time: 8.30-10.30

Communication EMOP Nos.: 48-53

Keynote Communications:

- 48 P. Alonso.- Evaluation of malaria vaccines
- 49 P. Guillet.- Malaria control

Free Oral Papers:

- 50 V. Corbel, B. Hue, J. Bonnet, J.M. Hougard, B. Lapied.- Effects of pyrethroid and carbamate combinations on insect synaptic transmission
- 51 A.I.O. Franco, P.G. Coleman, C.R. Davies, M. Rowland.- Controlling human malaria with insecticide treated livestock: can models help?
- 52 B. Mosqueira, L. Finot, F. Chandre, J.M. Hougard, P. Carnevale, S. Mas-Coma.- Evaluation of the efficacy of a new insecticide paint for malaria control. Part I: Bioassay tests on different surfaces against *Anopheles gambiae s.s.* and *Culex quinquefasciatus* performed over 12 months
- 53 B. Mosqueira, L. Djogbenou, J. Chabi, M. Akogbeto, F. Chandre, J.M. Hougard, P. Carnevale, S. Mas-Coma.- Evaluation of the efficacy of a new insecticide paint for malaria control. Part II: Field efficacy against *Anopheles gambiae s.s.* and *Culex quinquefasciatus* over 9 months in Benin

SESSION 8: TRENDS IN MALARIA CONTROL (II)

Chairs: M. Coosemans (Belgium), F.P. Mockenhaupt (Germany) and A. Benito (Spain)

Date: Thursday, July 22, 2004
Time: 15.00-17.00

Location: Room 13F
Communication EMOP Nos.: 54-61

Free Oral Papers:

- 54 I. Felger, N. Falk, T. Smith, S. Owusu-Agyei, H.-P. Beck.- Infection dynamics of clones of *Plasmodium falciparum* provides new molecular outcome measurements
- 55 L. Lambrechts, J. Halbert, L.C. Gouagna, J.C. Koella.- Specific interaction between the human malaria parasite *Plasmodium falciparum* and its mosquito vector *Anopheles gambiae*
- 56 F.P. Mockenhaupt, S. Ehrhardt, J. Cramer, R.N. Otchwemah, S.D. Anemana, K. Goltz, F. Mylius, E. Dietz, T.A. Eggelte, U. Bienzle.- Hemoglobin C confers protection against severe malaria in Ghanaian children
- 57 F.P. Mockenhaupt, S. Ehrhardt, L.A. Adjei, T.A. Eggelte, J.P. Cramer, R. Otchwemah, U. Bienzle.- Molecular epidemiology of chloroquine resistance and alternative first-line antimalarial treatment in northern Ghana
- 58 E. Martinez, A. Matias, O. Yucra, A. Achocalla, R. Mollinedo, J.P. Escobar, J.C. Avila, V. Castro, R. Figueroa, L. de la Cruz, C. Téllez, G. Nakao, G. Melgar, F. Ramos, P. Durán.- Probable chloroquine-resistance of *Plasmodium vivax* in the Bolivian Amazon
- 59 R.N. García, E. Deharo, P. Oporto, G. Ruiz, A. Gimenez, J.J. Nogal-Ruiz, L. Ruiz.- Antimalarial activity of 10 plants used in Peruvian Amazon against malaria
- 60 I.U. Ghysaert.- The IUG BioLithoEnergetic approach to treat malaria
- 61 I. Gutiérrez Garitano, E. Cantera Garde, E. Lapuente Troncoso, K. Latorre García, J.A. Sancho Esteras, M. Valencia Basaldúa, M. Zabalza Azparren.- Imported malaria in the Basque Country: ¿where are we?

SESSION 9: TRENDS IN MALARIA CONTROL (III)

Chairs: L. Hulden (Finland), H.K. Bassiouny (Egypt) and A. Khamesipour (Iran)

Date: Wednesday, July 21, 2004
Time: 17.30-19.30

Location: Room 13F
Communication EMOP Nos.: 62-66

Free Oral Papers:

- 62 H.K. Bassiouny, M.T. Al-Maktari.- Malaria in late pregnancy in Al-Hodeidah Governorate, Yemen
- 63 H.Y. Darani, M. Ranjbar, S.A. Saidzadeh, K. Manouchehri, N. Shahbakhsh, M. Aminifard.- The quality of field malaria diagnosis in Iranshahr, Iran
- 64 L. Huldén.- Temperature and the northern range of endemic malaria in Europe
- 65 I. Sharifi, M.R. Aflatonian, A. Khamesipour, M.R. Ahmadi-Mousavi, A. Nadim, H. Keshavarz, A. Raesi, G. Zamani.- Epidemiology, knowledge, perceptions, practices, and GIS for control and management of malaria in rural communities of Kahnouj in southern Iran
- 66 I. Sharifi, M.R. Aflatonian, A. Khamesipour, A. Nadim, H. Keshavarz, A. Raesi.- Malaria and cutaneous leishmaniasis control programs after earthquake in Bam, Iran

SESSION 10: ROUND TABLE: PAST, PRESENT AND FUTURE IN MALARIA RESEARCH

Chairs: P. Carnevale (France), M. Coosemans (Belgium) and M.J. Gardner (USA)

Date: Thursday, July 22, 2004
Time: 11.30-13.30

Location: Auditorium
Communication EMOP Nos.: 67-68

Keynote Communications:

- 67 M. Coosemans, W. Van Bortel, L.K. Thuan, H.D. Trung, D. Socheat, T. Sochant, S. Phompida, K. Keokenchan, V. Baimai, R. Harbach, S. Manguin.- Malaria in Southeast Asia: behaviour diversity of vectors in relation to species, environment and human activities
- 68 P. Carnevale, D. Fontenille, J. Mouchet.- Malaria: where are we, where are we going?

SESSION 11: POSTERS ON *PLASMODIUM*, *ANOPHELES* AND MALARIA (I)

Date: Monday, July 19, 2004
Time: 12.30-18.30

Location: Grand Hall
Communication EMOP Nos.: 69-75

- 69 C. Gauthier, L. Urdaneta, F. Ariey, M. Tibayrenc.- Comparison of the population structure and dynamics of *Plasmodium falciparum* in two site of instable transmission
- 70 E. Moyano, L.M. González, P. Berzosa, Z.G. Chen, A. Benito.- Characterization of *Plasmodium falciparum* antigens from a cDNA library
- 71 D. Dorostcar Moghaddam.- Pf 155, a parasite antigen in the membrane of *Plasmodium falciparum* infected erythrocytes
- 72 A.M. Talman, V. Robert, O. Domarle, M. Randrianarivelojosia, D. Rousset, F. Ariey.- Is apicoplast gene transcription controlled by the circadian rhythm of *Plasmodium falciparum*?

- 73 E.K. Chase, G. McVean, K.P. Day, A.E. Barry.- Diversity of DBL domains of the major surface antigen of *Plasmodium falciparum*
- 74 M.G. Paglia, C. Severini, P. Ghirga, P. Narciso.- Molecular diagnosis of *Plasmodium* species in Italian imported malaria cases
- 75 N. Popivanova, N. Andreeva, A. Massarlieva, V. Blagoeva, T. Kazakova, A. Gocheva, Z. Zaprianov, M. Dureva.- DIC-complicated lethal falciparum malaria: a case report

SESSION 12: POSTERS ON *PLASMODIUM*, *ANOPHELES* AND MALARIA (II)

Date: Tuesday, July 20, 2004

Location: Grand Hall

Time: 8.30-19.30

Communication EMOP Nos.: 76-84

- 76 M. Ejov, R. Kurdova-Mintcheva, N. Usenbaev, A. Zvanzov, G. Kurtsikashvili, T. Chogovadze, A. Anarbaev.- Malaria situation in Kyrgyzstan
- 77 A.M.A. El Rhman, A.K. Deyab, M.E.M. Monib, N.A. Saif.- Prevalence of malaria in Aden Governorate, Republic of Yemen
- 78 M. Hernandez-Valladares, J. Naessens, A.J. Musoke, P. Rihet, O.K. Ole-MoiYoi, F.A. Iraqi.- Malaria-induced pathology of tumor necrosis factor- α deficient mice after infection with *Plasmodium chabaudi*
- 79 F. Martínez-Gómez, O. Ixta-Rodríguez, B. Aguilar-Figueroa, R. Hernández-Cruz, A. Monroy-Ostria.- *Lactobacillus casei* ssp. *rhamnosus* induces non specific protective immunity against *Plasmodium chabaudi chabaudi*
- 80 A. de Lucio, P.J. Berzosa, E. Moyano, M. Moreno, A. Moreno, Z.G. Chen, S. Puente, A. Benito.- Diagnosis and reference of imported malaria in the Reference Laboratory of the National Center for Microbiology in Spain from 1997 to 2003
- 81 G. Nicolescu, A. Vladimirescu, V. Purcarea-Ciulacu, E.C. Coipan, D. Steriu.- Could malaria re-emerge in Romania? Historical and present data analysis
- 82 S.A. Omer, B.M. Abbas, S.M. Sulaiman.- Butab stain, a simple staining method of thick and thin blood films for malaria diagnosis
- 83 H. Ozbilge, M.A. Kurcer, N. Dogan, F.Y. Zeyrek.- Evaluation of the Pan Malaria IgG Test for malaria diagnosis among suspected malaria patients in Sanliurfa, Turkey
- 84 M.R. Razavi Deligani, S.R. Naddaf, M. Assmar.- Polymorphism in merozoite surface protein 1 gene of *Plasmodium vivax* in northwest isolates of Iran

SESSION 13: POSTERS ON *PLASMODIUM*, *ANOPHELES* AND MALARIA (III)

Date: Thursday, July 22, 2004

Location: Grand Hall

Time: 8.30-19.30

Communication EMOP Nos.: 85-90

- 85 R. Romi, D. Boccolini, S. D'Amato, D. Caraffa De Stefano, G. Majori.- Assessing incidence and risk factors of malaria in Italian travelers to endemic countries
- 86 F. Yildiz Zeyrek, M.A. Kurcer, Z. Simsek, C.D. Zeyrek.- Parasite density and serum cytokine levels in patients with acute *Plasmodium vivax* malaria in Sanliurfa, Turkey
- 87 M. Di Luca, M. Menegon, F. Severini, V. Davidyants, L. Avetisyan, M. Raymond, C. Severini.- Use of microsatellite markers to investigate the genetic structure of *Anopheles maculipennis s.l.* natural populations from Armenia
- 88 D.A. Calle, M.L. Quiñones, H.F. Erazo, N. Jaramillo.- Morphometric discrimination of females of five species of *Anopheles* of the subgenus *Nyssorhynchus* from southern and northwest Colombia
- 89 A. Lanfrancotti, M. Mestres-Simón, M.C. Colao, A. Propato, F. Lombardo, N. Stich, M. Ruzzi, M. Coluzzi, V. Barnaba, B. Arcà.- Toward a functional analysis of salivary proteins from the malaria vector *Anopheles gambiae*: a work in progress
- 90 M. Moreno, J. Cano, S. Nzambo, L. Bobuakasi, J.N. Buatiche, M. Ondo, F. Micha, Z.G. Chen, A. Benito.- Malaria Panel Assay vs PCR: detection of naturally infected *Anopheles melas* in a coastal village in Equatorial Guinea

SYMPOSIUM

LEISHMANIA, PHLEBOTOMINES AND LEISHMANIASIS CONTROL

Organisers: Ph. Desjeux (TDR/WHO) and J. Alvar (Spain)

Supported partially with funding from DiaMed AG, GlaxoSmithKline, InterVet, Innogenetics and Dinarte

SESSION 1: DIAGNOSIS AND MOLECULAR EPIDEMIOLOGY UPDATE (I)

Chairs: Ph. Desjeux (TDR/WHO), I. Mauricio (Portugal) and J. Alvar (Spain)

Date: Tuesday, July 20, 2004

Location: Room 15F

Time: 15.00-17.00

Communication EMOP Nos.: 91-94

Keynote Communications:

- 91 S. Sundar.- Leishmaniasis: diagnostic overview of visceral disease
92 F. Chappuis.- Rapid tests for field use
93 M. Boelaert.- Algorithms for case management of Visceral Leishmaniasis in endemic regions
94 I. Mauricio.- Tools for molecular epidemiology of leishmaniasis

SESSION 2: DIAGNOSIS AND MOLECULAR EPIDEMIOLOGY UPDATE (II)**Chairs: A. Osuna (Spain), M. Chance (UK) and M. Gállego (Spain)**

Date: Tuesday, July 20, 2004 Location: Room 15F

Time: 17.30-19.30

Communication EMOP Nos.: 95-104

Free Oral Papers:

- 95 N. Rodriguez, M. Barrios, O. Zerpa, D. Feliciangeli.- Molecular epidemiology of *Leishmania (Leishmania) infantum* in Margarita island, Nueva Esparta State, Venezuela
96 K.W. Quispe Tintaya, X. Ying, J.-P. Dedet, S. Rijal, X. De Bolle, J.C. Dujardin.- Antigen genes for molecular epidemiology of leishmaniasis: polymorphism of cysteine proteinase b and surface metalloprotease gp63 in the *Leishmania donovani* complex
97 B. Sarkari, M. Chance, M. Hommel.- A capture ELISA for the diagnosis of visceral leishmaniasis, using a monoclonal antibody against a leishmanial urinary antigen
98 A. Khamesipour, P. Nasrifar, N. Tashakor, S.H. Hejazi, S. Jamali, G.H. Hatam.- Identification of *Leishmania* isolated from cutaneous leishmaniasis patients in Isfahan, Iran by using monoclonal antibodies
99 A. Athari, L. Jelve.- Detection of antigens in urine of patients with acute visceral leishmaniasis by Western blot in Iran
100 S.H. Hejazi, S. Jamali, N. Tashakor, A. Khamesipour.- Identification of *Leishmania* species by PCR technique in Isfahan, Iran
101 H. Nakkash Shmayssi, D.M. Itani, N. Najjar, D. Shouman, N. Nuwayri-Salti.- Efficacy of isolating *Leishmania* parasites from skin and or blood in patients with dermal leishmaniasis and reflection on the course of illness in patients with hematogenous spread
102 H. Sadeghi-Bazargani, S. Arshi, M. Mohebbali, A. Majidpour, A. Daryani, M. Sheybani.- Nomads and kala-azar
103 A. Shamsizadeh, R. Nikfar, S. Maraghi, N. Zaker, F. Mirshekari.- Pediatric visceral leishmaniasis in southwestern part of Iran: a study of 215 cases
104 S. Ozensoy Toz, Y. Ozbel, H. Ertabaklar, N. Sakru, M. Sengul.- Investigation of prevalence of zoonotic visceral leishmaniasis in Denizli Region, Turkey

SESSION 3: HUMAN LEISHMANIASIS AND TREATMENT**Chairs: S. Sundar (India), Ph. Desjeux (TDR/WHO) and F. Gamarro (Spain)**

Date: Wednesday, July 21, 2004

Location: Room 15F

Time: 8.30-10.30

Communication EMOP Nos.: 105-108

Keynote Communications:

- 105 E. Rosenthal, P. Marty.- Treatment of human visceral leishmaniasis: overview and available drugs
106 F. Gamarro, F. J. Pérez-Victoria, S. Castanys.- Molecular mechanisms of drug resistance in *Leishmania*

Free Oral Papers:

- 107 K.R. Engel, H. Sindermann, W. Bommer.- Efficacy and tolerability of Impavido® (Miltefosine) in refractory visceral Leishmaniasis
108 A. Fata, A. Rakhshande, F. Berenji, A. Jalalianfard, F. Mirkazemi.- Treatment of cutaneous leishmaniasis in murine model by an alcoholic extract of *Berberis vulgaris*

SESSION 4: THE DOG AS RESERVOIR**Chairs: C.R. Davies (UK), L.C. Gómez-Nieto (Spain) and L. Campino (Portugal)**

Date: Wednesday, July 21, 2004

Location: Room 15F

Time: 11.00-13.30

Communication EMOP Nos.: 109-118

Keynote Communications:

- 109 J. Moreno, J. Nieto, C. Cañavate, J. Alvar.- Experimental canine leishmaniasis
110 C.R. Davies.- Control of zoonotic visceral leishmaniasis
111 A. Dakkak.- Canine visceral leishmaniasis vaccines

Free Oral Papers:

- 112 R.J. Quinnell, L.J. Kennedy, A. Barnes, O. Courtenay, C. Dye, L.M. Garcez, R. Reithinger, C.R. Davies, M.A. Shaw, S.D. Carter, W. Thomson, W.E.R. Ollier.- Genetics of susceptibility to visceral leishmaniasis in the domestic dog
113 H.D.F.H. Schallig, L. Cardoso, M. Hommers, G.J. Schoone, S.J. Semião-Santos, M. Rodrigues.- Development and evaluation of serological diagnostic tools for canine leishmaniasis
114 J. Moreno, J. Nieto, E. Carrillo, M. Crusat, M. Elbali, I. Cruz, C. Chicharro, C. Cañavate, J. Alvar.- Toward a better understanding of canine leishmaniasis

- 115 K. Manouchehri, R. Sobhani.- Sero-epidemiology of canine visceral leishmaniosis in tribal regions of western part of Iran, 2003-2004
- 116 G. Capelli, A. Natale, A. Frangipane di Regalbono, R. Zampiccoli, F. Gatti, F. Cestaro, M. Gramiccia, M. Maroli, M. Pietrobelli.- Spreading of canine leishmaniosis in north-eastern Italy
- 117 L. Cardoso, M. Rodrigues, H. Santos, G.J. Schoone, P. Carreta, E. Varejão, B. van Benthem, M. Odete Afonso, C. Alves-Pires, S.J. Semião-Santos, J. Rodrigues, H.D.F.H. Schallig.- Sero-epidemiological study of canine *Leishmania* spp. infection in the municipality Alijó (Alto Douro, Portugal)
- 118 E. Carrillo, I. Cruz, J. Nieto, J. Moreno, J. Alvar.- Study of the cytokine expression pattern in canine leishmaniasis

SESSION 5: VECTOR AND VECTOR CONTROL (I)

Chairs: P. Ready (UK), M. Maroli (Italy) and R. Molina (Spain)

Date: Wednesday, July 21, 2004

Location: Room 15F

Time: 15.00-17.00

Communication EMOP Nos.: 119-122

Keynote Communications:

- 119 P.A. Bates.- The life cycle and transmission mechanisms of *Leishmania*
- 120 M.D. Barges, J. Depaquit, N. Léger, F. Le Pont, J.P. Dujardin, S. Mas-Coma.- On the way for an exhaustive molecular phylogeny of Phlebotominae sandflies (Diptera: Psychodidae) inferred from 18S and 28S rDNA sequences
- 121 M. Maroli.- Prevention and control of phlebotomine vectors: current approaches
- 122 P.D. Ready.- Leishmaniasis as an emerging disease in a changing European environment: distributions of sandfly vectors

SESSION 6: VECTOR AND VECTOR CONTROL (II)

Chairs: P.A. Bates (UK), C. Pires (Portugal) and F. Morillas (Spain)

Date: Wednesday, July 21, 2004

Location: Room 15F

Time: 17.30-19.30

Communication EMOP Nos.: 123-127

Free Oral Papers:

- 123 A.M. Aransay, R. Molina.- Population structure of *Phlebotomus perniciosus* in the Iberian Peninsula and Balearic Islands analyzed by polymorphic microsatellite markers
- 124 S. Guernaoui, A. Boumezzough, S. Boussaa, G. Pichon.- Determinant factors of the distribution of phlebotomine sandflies (Diptera: Psychodidae) in an arid zone in Morocco
- 125 M.R. Yaghoobi-Ershadi, A.A. Akhavan, A.R. Zahraei -Ramazani, H. Abdoli.- Epidemiological study in a new focus of cutaneous leishmaniasis close to the silk road in northeastern Iran
- 126 P. Duran, E. Martinez.- Extraordinary behaviour *in vitro* of *Leishmania* n. sp.
- 127 B. Kazemi, M.R. Nazari Pouya, M.H. Heidar, M. Nader, A. Piryaee.- Ultrastructural study on *Leishmania major* and lizard *Leishmania* promastigotes using transmission electron microscopy

SESSION 7: TOOL DISCOVERY

Chairs: F. Modabber (IDRI-TDR/WHO), M.M. Mukhtar (Sudan) and B. Valladares (Spain)

Date: Thursday, July 22, 2004

Location: Room 15F

Time: 8.30-10.30

Communication EMOP Nos.: 128-130

Keynote Communications:

- 128 M.M. Mukhtar, E.A.G. Khalil, A.M. Elhassan, A.M. Musa, F. Modabber.- *Leishmania* first generation vaccines: vaccine trials in Sudan
- 129 F. Modabber.- The future of leishmaniasis vaccine
- 130 D. Zilberstein.- From genome to diagnosis, drug and vaccine development in leishmaniasis

SESSION 8: IMMUNOLOGY AND VACCINATION

Chairs: D. Zilberstein (Israel), M. Mohebbi (Iran) and J.M. Alunda (Spain)

Date: Thursday, July 22, 2004

Location: Room 15F

Time: 11.00-13.30

Communication EMOP Nos.: 131-142

Free Oral Papers:

- 131 F. Aguilar-Torrentera, J. Laman, E. Muraille, Y. Carlier.- Expression of CD40L, IL-12p40 and NOS2 is associated with the control of *Leishmania mexicana* infection in mice
- 132 Y. Sohrabi, M.R. Jaafari, A.M. Mohammadi, S.E. Eskandari, A. Javadi, A. Khamesipour.- Evaluation of the immune response induced by freeze/thawed thimerosal treated *Leishmania major* (KLM) in a murine model of leishmaniasis

- 133 V. Iniesta, J. Carcelén, E. Redondo, I. Molano, M. Mangas, I. Corraliza, I. Monroy, L.C. Gómez-Nieto.- Specific immune response is correlative to histopathological parameters during the development of *Leishmania major* infection in resistant C57BL/6 versus susceptible BALB/C mice
- 134 J. Carcelén, I. Molano, V. Iniesta, I. Corraliza, M. Mangas, I. Monroy, L.C. Gómez-Nieto.- Vaccination against canine leishmaniasis with a recombinant *L. infantum*-multicomponent chimeric protein (PQ) plus KMP11 (I): clinical, immunological and parasitological protectivity studies
- 135 J. Carcelén, I. Molano, V. Iniesta, I. Corraliza, M. Mangas, E. Redondo, I. Monroy, L.C. Gómez-Nieto.- Vaccination against canine leishmaniasis with a recombinant *Leishmania infantum*-multicomponent chimeric protein (PQ) plus KMP11 (II): histopathological study
- 136 M. Nateghi Rostami, H. Keshavarz, A. Khamesipour.- Comparative analysis of the adjuvant activity of *Mycobacterium vaccae* and BCG mixed with Alum precipitated autoclaved *Leishmania major* vaccine (Alum-ALM) in murine model of leishmaniasis
- 137 M. Mohebbali, A. Khamesipour, I. Mobedi, Z. Zarei, R. Hashemi-Fesharki, E. Javadian.- Double blind randomized efficacy field precipitated autoclaved *Leishmania major* vaccine mixed with BCG against canine visceral leishmaniasis in Meshkin-shahr district, Iran
- 138 A. Mirjalili, A. Sarkari.- Isolation of infective promastigotes of *Leishmania major* from long-term culture by cocultivation with macrophage cell-line
- 139 H. Keshavarz, M. Nateghi Rostami, A. Khamesipour.- Draining lymph node parasite burden in Balb/c mice immunized with alum precipitated autoclaved *Leishmania major* and challenged with *L. major*
- 140 A. Khamesipour, Y. Dowlati, A. Asilian, R. Hashemi-Fesharki, A. Javadi, S. Noazin, F. Modabber.- Leishmanization a method for protection and evaluation of candidate vaccines against leishmaniasis
- 141 A. Khamesipour, M.R. Jaafari, A. Javadi, Y. Sohrabi.- Evaluation of cell mediated immunity against leishmaniasis in mice immunized by Alum precipitated autoclaved *Leishmania major* (Alum-ALM) vaccine encapsulated in liposomes
- 142 A. Khamesipour, M. Nateghi Rostami, H. Keshavarz.- Induction of partial protection against *Leishmania major* infection in Balb/c mice immunized with Alum precipitated autoclaved *L. major* mixed with either *M. vaccae* or BCG

SESSION 9: LEISHMANIASIS AND AIDS

Chairs: J. Alvar (Spain) and M. Portús (Spain)

Date: Thursday, July 22, 2004

Location: Auditorium

Time: 15.00-17.00

Communication EMOP No.: 143

Keynote Communication:

- 143 P. Desjeux.- Leishmania/HIV co-infection: the European experience

SESSION 10: POSTERS ON LEISHMANIA, PHLEBOTOMINES AND LEISHMANIASIS CONTROL (I)

Date: Tuesday, July 20, 2004

Location: Grand Hall

Time: 8.30-19.30

Communication EMOP Nos.: 144-165

- 144 L. Montoya, B. Gavignet, M. Gállego, L. Iniesta, M. Alcover, R. Piarroux, M. Portús, R. Fisa.- Application of microsatellite analysis to *Leishmania infantum* strains from dogs and sand flies in the Priorat region (NE of Spain)
- 145 M.G. Liscano, I. Rosales, G. D'Suze, Z.D. Longa, S. Télles.- Isolation and characterization of *Leishmania brasiliensis* natural peptides
- 146 A. Jorquera, E. Marchán, R. González, J. Maldonado, L. Romero, M. Vivenes, M. Matos.- Multiplex-PCR for the molecular epidemiology study of cutaneous leishmaniasis in eastern Venezuela
- 147 M.A. Quispe Ricalde, C. Pou Barreto, M.J. Bernal, E. Figueruelo, J. Piñero, A. Rosello, B. Valladares.- Cloning and characterization of the *Leishmania (Viannia) braziliensis* HSP83 gene
- 148 M.A. Quispe Ricalde, C. Pou Barreto, R. Pacheco, E. Figueruelo, E. Martínez-Carretero, B. Valladares.- Antigenic mapping of HSP83 of *Leishmania (Viannia) braziliensis* and preliminary study for diagnostic use
- 149 J. Martín-Sánchez, F. Gálvez, M. Gállego, B. Pesson, E. Martínez-Ortega, S. Barón, M. Alcover, E. Conesa, C. Alves-Pires, F. Morillas-Márquez.- Application of the RAPD-PCR technique to study the population structure of *Phlebotomus perniciosus* Newstead, 1911 (Diptera, Phlebotomidae) in the Iberian Peninsula: epidemiological implications
- 150 F. Morillas Márquez, C. Navarro Moll, P. Montilla Herrera, P. Perez Galindo, M. Morales Yuste, J. Martín Sánchez.- Activity of the monoterpene derivatives carvacrol, linalool and α -terpineol, obtained from aromatic plants, on *Leishmania infantum*
- 151 L. Kramer, E. Ferroglio, L.E. Calvi, L. Sacchi.- Immunohistochemical analysis of the leishmanin reaction in dogs from an endemica area for *Leishmania infantum*
- 152 P. González, C. Marín, I. Rodríguez-González, M.J. Rosales, A. González-Coloma, C. Barragán, M. Sánchez-Moreno.- In vitro activity of C20-diterpenoid alkaloid derivatives in promastigotes and intracellular amastigotes of *Leishmania infantum*
- 153 I. Fuentes Ortiz, G. Uzcanga.- Anti-*Leishmania* serum antibody follow-up of an asymptomatic exposed canine population from central Spain
- 154 M.A. Dea Ayuela, S. Rama Iñiguez, F. Bolás-Fernández.- Two-dimensional gel electrophoresis as analytical tool for identifying *Leishmania infantum* immunogenic proteins
- 155 I. Cruz, C. Chicharro, J. Cuadrado, E. García, C. Cañavate, J. Alvar.- Comparative study for visceral leishmaniasis diagnosis: noninvasive procedures (Katex and blood LnPCR) versus gold standard methods (bone marrow culture and microscopy)

- 156 I. Cruz, E. Carrillo, J. Cuadrado, J. Moreno, C. Cañavate, J. Alvar.- Real-Time PCR for diagnosis and determination of parasitic load in human and canine leishmaniasis
- 157 S. Rama Iñiguez, M.A. Dea Ayuela, J.A. Sánchez Brunete, J. Torrado Durán, J.M. Alunda, F. Bolás Fernández.- Real time quantitative RT-PCR for cytokine m-RNA expression in the golden hamster: application to *Leishmania* infection
- 158 S. Rama Iñiguez, M.A. Dea Ayuela, J.M. Alunda, F. Bolás Fernández.- Real time quantitative RT-PCR for quantification of *Leishmania infantum* in the golden hamster
- 159 S. Rama Iñiguez, M.A. Dea Ayuela, J.A. Sánchez Brunete, J. Torrado Durán, J.M. Alunda, F. Bolás Fernández.- Anti-leishmanial activity and pharmacokinetics studies of a new formulation of amphotericin B
- 160 C. Riera, R. Fisa, T. Serra, C. Lloret, P. López Chejade, M. Mascaró, T. Jimenez, M. Sedeño, J. Muncunill, E. Girona, M. Udina, M. Gállego, J. Carrió, M. Portús.- Prevalence of cryptic infection by *Leishmania infantum* in blood donors from Majorca (Balearic Islands, Spain)
- 161 I. Rodríguez-González, C. Marín, F. Vargas, O. Córdova, A. Illana, R. Gutiérrez-Sánchez, M. Sánchez-Moreno.- Identification and biochemical characterization of *Leishmania* strains isolated in Peru, Mexico and Spain
- 162 M.E. Serna, S. Torres, E. Pandolfi, A. Rojas de Arias.- Finding of leishmanicidal activity of 14-hidroxiilunularine in murine experimentally infected with *Leishmania infantum*
- 163 M.O. Afonso, S. Cortes, J. Ramada, M.J. Capela, C. Alves-Pires, L. Campino.- The importance of stray dogs in the transmission of *Leishmania infantum* in periurban areas: epidemiological survey in the Lisboa region
- 164 M.D. Feliciangeli, O. Delgado, B. Suarez, M.A. Chiurillo, L. Garcia, S. Silva, V. Coraspe.- Burden of *Leishmania chagasi/infantum* infection in a closed rural focus of visceral leishmaniasis in Lara State, west-central Venezuela and perspectives for control
- 165 A.C. González, E. Martínez-Carretero, M.C. Thomas, V.M. Rodríguez-Borges, J. Lorenzo, A. Ortega-Rivas, D. Deniz, E. Figueruelo, M.C. López, B. Valladares.- Immunological characterization of L25 ribosomal protein from *Leishmania braziliensis*

SESSION 11: POSTERS ON *LEISHMANIA*, PHLEBOTOMINES AND LEISHMANIASIS CONTROL (II)

Date: Thursday, July 22, 2004
Time: 8.30-19.30

Location: Grand Hall
Communication EMOP Nos.: 166-209

- 166 A. Fernández, N. Rodriguez.- Molecular cloning and expression of a Ca⁺²ATPase (vacuolar type) from *Leishmania (Leishmania) mexicana*
- 167 M.G. Cabrera-Serra, P. Nguewa, M. Romero, E. Martínez, A. Del Castillo, F. Mollinedo, B. Valladares, J. Piñero.- *In vitro* activity of phospholipid analogues, Miltefosine, Edelfosine and a novel alkylphospholipid, Perifosine, against *Leishmania braziliensis* and *Leishmania amazonensis*
- 168 F. Aguilar-Torrentera, J. Laman, Y. Carlier.- Parasitic load and histopathology of cutaneous lesions, lymph node, spleen, and liver from BALB/c and C57BL/6 mice infected with *Leishmania mexicana*
- 169 M. Romero, M.G. Cabrera-Serra, C. Boluda, E. Martínez, F. De Armas, J. Perez, H. Lopez, J. Trujillo, B. Valladares, J. Piñero.- Leishmanicidal activity of natural and synthetic lignans against *Leishmania braziliensis* and *Leishmania amazonensis*
- 170 P.A. Nguewa, A.C. García, V.M. Rodríguez, E. Martínez, B. Valladares.- Cell death in *Leishmania braziliensis*: an approach
- 171 N. Tashakor, M. Kalantari, S.H. Hejazi, A. Khamesipour.- Induction of protection against *Leishmania major* infection in BALB/c mice by inoculation of low doses of *L. major*
- 172 S. Tolouei, S.H. Hejazi, M. Mostaghim.- Study of inhibitory effects of paromomycin and gentamicine on the viability of the promastigotes of *Leishmania major* in vitro
- 173 M. Assmar, M. Farahmand, S. Eskandarzadeh.- *In vitro* evaluation of therapeutic effects of *Dorema ammoniacum* extract on *Leishmania major*
- 174 J. Carrión, S. Iborra, M. Soto, C. Alonso.- Protective immunity against murine cutaneous leishmaniasis, following immunization with each of the four plasmids DNAs encoding the nucleosomal histones of *Leishmania*
- 175 A. Fattahi Bafghi, A. Zavvaran Hosseini, A. Dalimi Asl, A. Mahmoudzadeh, F. Ghaffarifar.- Evaluation of cell immunoresponses against LPG and GP63 molecules purified of *Leishmania (L.) major* [MRHO/IR/75/ER] in human patients with acute healing, non-heal and without cutaneous leishmaniasis
- 176 S. Ghaseminiko, F. Ghaffarifar, F. Tabatabaie, A. Dalimi Asl.- Comparison between chemical drugs and plant drugs on sore and progressive recovery of leishmaniasis in Balb/c mice infected with *Leishmania major*
- 177 H. Hajjaran, M. Mohebal, M.R. Razavi, S. Rezaei, B. Kazemi, J. Mojtavavi, B. Hooshmand.- Identification of *Leishmania* species isolated from human cutaneous leishmaniasis in Mashhad city using a random amplified polymorphic DNA (RAPD-PCR)
- 178 V. Iniesta, J. Carcelén, I. Molano, M. Mangas, E. Redondo, L.C. Gómez-Nieto, I. Monroy, I. Corraliza.- Involvement of arginase I induction during *Leishmania major* infection: implications in the susceptibility and resistance to the disease
- 179 H. Ertabaklar, S. Öncü, S. Ertud.- New focus of cutaneous leishmaniasis in Turkey
- 180 A.H. El-Zurghany.- New focus of zoonotic cutaneous leishmaniasis in Abo-Algrab, Mizda, Libya
- 181 M. Ben Said, F. Saghrouni, N. Ghariani, A. Fathallah, H. Ach, M. Denguezli.- Poor response to meglumine antimonate in Tunisian patients with cutaneous leishmaniasis: report of 11 cases
- 182 M. Mangas, J. Carcelén, I. Molano, V. Iniesta, I. Corraliza, A. Gomez, L. Gómez, I. Monroy, L.C. Gómez-Nieto.- Analysis of the polyarthritis associated to susceptible forms of *Leishmania infantum*-canine leishmaniasis

- 183 J. Martín-Sánchez, C. Acedo, M. Muñoz-Pérez, B. Pesson, J. Castro, O. Marchal, J. Maza, S. Barón, F. Morillas-Márquez.- Feline leishmaniasis by *Leishmania infantum* in southern Spain: preliminary results
- 184 I. Molano, J. Carcelén, C. Cámara, J. Viñuelas, V. Iniesta, I. Corraliza, M. Mangas, I. Monroy, L.C. Gómez-Nieto.- Proteinogram profile correlates with specific immune response against *Leishmania infantum* recombinant proteins: possible prognosis markers in canine leishmaniasis
- 185 I. Molano, J. Carcelén, V. Iniesta, I. Corraliza, M. Mangas, I. Monroy, L.C. Gómez-Nieto.- Recombinant *Leishmania infantum*-Multicomponent Chimeric Protein (PQ) used as vaccine against canine leishmaniasis (I): clinical, immunological and parasitological protection
- 186 I. Molano, J. Carcelén, V. Iniesta, I. Corraliza, M. Mangas, E. Redondo, I. Monroy, L.C. Gómez-Nieto.- Recombinant *Leishmania infantum*-Multicomponent Chimeric Protein (PQ) used as vaccine against canine leishmaniasis (II): histopathological study
- 187 P.J. Bourdeau, M. Mallet, A. Marchand.- Canine leishmaniosis in France: A national survey. Preliminary results on distribution and prevalence
- 188 C. Chicharro, J. Nieto, E. García, I. Cruz, C. Cañavate, M. Flores, J. Cuadrado, J. Alvar.- Epidemiology of canine leishmaniasis in Ibiza (Balearic Islands): comparative study of different diagnosis methods
- 189 L. Iniesta, M. Gállego, M. Portús.- Immunoglobulin G and E response in canine leishmaniosis
- 190 M. Maache, S. Azzouz, R. Diaz de la Guardia, M. Galiana, R. Gil, A. Osuna.- Host humoral immune response to *Leishmania* fatty acide binding protein
- 191 M. Maache, S. Azzouz, J.R. Gil, M. Galiana, O.M. Córdova, P. Alvarez, R. Díaz de la Guardia, A. Osuna.- Purification and immunolocalization of a fatty-acid-binding protein in *Leishmania*
- 192 S. Pasa, S. Ozensoy Toz, H. Voyvoda, Y. Ozbe.- Clinical and serological follow-up in dogs with visceral leishmaniasis treated with allopurinol and sodium stibogluconate
- 193 S. Rama Iñiguez, M.A. Dea Ayuela, J.A. Sánchez Brunete, J. Torrado Durán, J.M. Alunda, F. Bolás Fernández.- Treatment of experimental visceral leishmaniasis with high doses of amphotericin B formulated in human serum albumin microspheres
- 194 A. Taylan Ozkan, T. Yalcinkaya, S.Kilic, C. Babur, T. Aslan.- HIV and *Leishmania* co-infection in Turkey
- 195 T.V. Barreto, A. Llanos-Cuentas, P. Herrera-Velit, J.R. Espinoza, E. Hermann, Y. Carlier.- Both CD4 and CD8 T cells are activated in cutaneous and mucocutaneous leishmaniasis patients from Peru
- 196 J. Carcelén, I. Molano, V. Iniesta, I. Corraliza, E.M. Pérez, J. Jiménez, J.M. Usón, M. Mangas, I. Monroy, L.C. Gómez-Nieto.- Application of laparoscopic techniques for the diagnosis and prognostic evaluation during canine leishmaniasis
- 197 J. Carrió, C. Riera, E. Ribera, R. Fisa, P. López, V. Falcó, I. Molina, M. Gállego, S. Tebar, M. Portús.- *Leishmania* detection in HIV coinfectd patients after treatment with Amphotericin B (Ambisome®) and *in vitro* susceptibility of the isolates to Ambisome®
- 198 N. Dogan, S.O. Toz, O. Bor, E.C. Dinleyici, Y. Ozbel.- Investigation of zoonotic visceral leishmaniasis and its vectors in Eskisehir and surrounding cities, Turkey
- 199 G. Eslami, H. Hejazi.- Hydatid cyst fluid enhances the growth of *Leishmania* in monophasic and biphasic media
- 200 F. Ghaffarifar, O. Jorjani, M. Mirshams, M. Miranbeigy, Z.K. Hoseini.- Photodynamic therapy as a safe method for treatment of leishmaniasis
- 201 M.J. Gharavi, M. Mohebali, S. Shargh.- Detection of blocking antibodies in the Mediterranean type of human visceral leishmaniasis
- 202 S. Kose, S. Ozensoy Toz, I.C. Balcioglu, A. Olut, M. Korkmaz, Y. Ozbel.- Treatment of kala-azar by Amphotericin B Lipid Complex (Abelcet®)
- 203 P. López Chejade, R. Fisa, C. Riera, L. Montoya, E. Ribera, V. Falcó, M. Gállego, M. Portús.- A urine-based PCR assay for diagnosis and monitoring of visceral leishmaniosis in HIV coinfectd patients
- 204 M. Belardinelli, A.M. Fausto, E. Ferroglio, L. Rossi, G. Capelli, A. Natale, M. Mazzini, M. Maroli.- Morphometric studies of five geographical populations of *Phlebotomus perniciosus* (Diptera: Psychodidae) in Italy
- 205 S. Boussaa, S. Guernaoui, A. Boumezzough.- Periodicity of phlebotomine sandflies (Diptera: Psychodidea) in an arban area of Marrakech, Morocco
- 206 Y. Rassi, F. Kaverizadeh, E. Javadian.- Natural promastigote infection of *Phlebotomus caucasicus* in a new focus of visceral leishmaniasis in north west of Iran
- 207 R. Molina, G. Miró, C. Fraile.- Canine leishmaniasis therapy and dog infectivity to sand flies
- 208 H. Nekouie, M. Assmar, M.R. Razavi.- The prevalence rate of *Leishmania* infection among *Phlebotomus* collected from Abardejh of Varamin, Iran
- 209 A.A. Akhavan, H. Abdoli, S.H. Hejazi, M.R. Yaghoobi-Ershadi, A.R. Zahraei-Ramazani, A.R. Jalalizand, N. Piazak, M. Alizadeh.- Some ecological aspects of phlebotomine sand flies in an endemic focus of cutaneous leishmaniasis in Iran

SYMPOSIUM
TRYPANOSOMES, TRIATOMINES AND CHAGAS DISEASE:
BASIC KNOWLEDGE AND APPLIED RESEARCH

Organisers: F. Guhl (Colombia) and M.D. Bargues (Spain)

Supported partially with funding from the European Commission (CDIA Project, INCO-DEV, DG XII)

SESSION 1: CURRENT EPIDEMIOLOGICAL TRENDS IN THE AMERICAS

Chairs: F. Guhl (Colombia), A. Rojas de Arias (Paraguay) and C. Ponce (Honduras)

Date: Monday, July 19, 2004

Location: Room 17 F

Time: 15.00-18.00

Communication EMOP Nos.: 210-214

Keynote Communications:

- 210 A. Rojas de Arias.- Current epidemiological trends of Chagas disease in the Southern Cone countries
- 211 F. Guhl.- Chagas disease: current epidemiological trends in the Andean Region
- 212 C. Ponce, E. Ponce.- Current epidemiological trends in Central America
- 213 J. Ramsey.- Current epidemiological trends for Chagas disease in Mexico
- 214 J.R. Coura, A.C.V. Junqueira, P.V. Albajar, J.C. Pinto Dias.- The risks of Chagas Disease in the Amazon region

SESSION 2: DRUG DEVELOPMENT AND CONTROLLED CLINICAL TRIALS IN THE THREE DIFFERENT REGIONS OF LATIN AMERICA (I)

Chairs: J.K. Lazdins-Helds (WHO), J. Urbina (Venezuela) and K. Kita (Japan)

Date: Tuesday, July 20, 2004

Location: Room 17 F

Time: 15.00-17.00

Communication EMOP Nos.: 215-218

Keynote Communications:

- 215 J. Urbina.- Trypanocidal drugs: new candidates for the etiological treatment of Chagas disease
- 216 J.K. Lazdins-Helds.- Development of new drugs for American Trypanosomiasis
- 217 K. Kita.- Parasite mitochondria as a target of chemotherapy
- 218 S. Sosa-Estani.- Etiological treatment in asymptomatic patients infected by *Trypanosoma cruzi*: experiences in South-American countries

SESSION 3: DRUG DEVELOPMENT AND CONTROLLED CLINICAL TRIALS IN THE THREE DIFFERENT REGIONS OF LATIN AMERICA (II)

Chairs: J.R. Coura (Brazil), J. Ramsey (Mexico) and Y. Yamagata (Japan)

Date: Tuesday, July 20, 2004

Location: Room 17 F

Time: 17.30-19.30

Communication EMOP Nos.: 219-225

Keynote Communications:

- 219 J.R. Coura.- Brazilian experience on the treatment of Chagas disease with benznidazole
- 220 F. Guhl, S. Nicholls, R. Montoya, F. Rosas, N. Yaneth Zipa.- First controlled assay of etiologically treating school-aged children infected with *Trypanosoma cruzi* in an endemic area in Colombia
- 221 E. Ponce, C. Ponce.- Experiences of etiological treatment in asymptomatic *Trypanosoma cruzi* infected patients in Central America
- 222 W. Apt, A. Arribada, I. Zulantay, G. Sánchez, A. Solari, O. Osuna, J. Venegas, J. Rodríguez.- Treatment of chronic Chagas disease with itraconazole and allopurinol: regression and prevention of electrocardiographic abnormalities and results of polymerase chain reaction (PCR) and hybridization assays after ten years of follow up

Free Oral Papers:

- 223 C. Hall, T. Hobby, M. Cipollini.- The *in vitro* effectiveness of *Solanum* spp. derived plant alkaloids as anti-trypanosomal compounds and their potential as chemotherapeutic agents
- 224 Y. Yamagata, J. Nakagawa.- Management of Chagas disease control in Central America with Japanese technical cooperation
- 225 D.K. Inaoka, E. Takashima, A. Osanai, H. Shimizu, T. Nara, T. Aoki, S. Harada, K. Kita.- Crystal structure of *Trypanosoma cruzi* dihydroorotate dehydrogenase (TcDHOD) in complex with orotate at 1.96 Å resolution

SESSION 4: MORPHOMETRICS AND MOLECULAR EPIDEMIOLOGY OF TRIATOMINES (I)

Chairs: C.J. Schofield (UK), J.P. Dujardin (France) and M.D. Bargues (Spain)

Date: Wednesday, July 21, 2004

Location: Room 17 F

Time: 8.30-10.30

Communication EMOP Nos.: 226-231

Keynote Communications:

- 226 C.J. Schofield.- Evolution and dispersal of *Triatoma* and *Rhodnius* in the Americas
- 227 J.P. Dujardin.- Progress in morphometrics of Triatominae
- 228 M.D. Bargues.- Molecular epidemiology in Triatominae

Free Oral Papers:

- 229 J. Costa, J.P. Dujardin.- Homoploid hybrid speciation in Triatominae (Heteroptera, Reduviidae)
230 M.L. Hernandez-Viadel, D.R. Klisiowicz, S. Mas-Coma, M.D. Bargaes.- Identification and characterization of the genotype variability of the rADN ITS-2 in the Chagas disease vector *Triatoma dimidiata*
231 J.P. Dujardin, R. Ryckman.- Wing geometry of Triatominae is under the influence of coancestry

SESSION 5: MORPHOMETRICS AND MOLECULAR EPIDEMIOLOGY OF TRIATOMINES (II)**Chairs: F. Noireau (France), F. Panzera (Uruguay) and J. Costa (France)**

Date: Wednesday, July 21, 2004

Location: Room 17 F

Time: 15.00-17.00

Communication EMOP Nos.: 232-238

Keynote Communications:

- 232 F. Panzera.- Genomic changes in the evolution of species and populations: the enigma of the genome reduction in *Triatoma infestans*
233 F. Noireau, M.G. Rojas Cortez, A.L. Carbajal de la Fuente, A.G. Dias-Lima.- The silvatic life of Triatominae, with special reference to *Triatoma pseudomaculata* and *Triatoma infestans*

Free Oral Papers:

- 234 J. Jurberg, R.U. Carcavallo, D.S. Rocha, H. Lent, C. Galvão, C. Dale.- A systematic study of the “*breyeri* and *spinolai* specific complexes” and their phylogenetic relationship (Hemiptera: Reduviidae: Triatominae)
235 C. Hall, T. Hobby, M. Yabsley, J. Allem, M. Grijalva.- Epidemiological factors associated with endemic transmission cycles of *Trypanosoma cruzi* in the southeastern United States
236 H. Caro-Riaño, S. Mas-Coma, N. Jaramillo.- The phenotypic plasticity in *Rhodnius pallescens* (Hemiptera: Reduviidae): influence of population density and feeding patterns
237 E. Martinez, T. Chavez, A. Matias, D. Sossa, R. Aranda.- *Triatoma* n. sp. a new Triatominae species from Bolivia
238 J. Schachter-Broide, J.P. Dujardin, U. Kitron, R.E. Gürtler.- Seasonal variations in spatial structuring of *Triatoma infestans* (Hemiptera; Reduviidae) populations using wing geometric morphometry

SESSION 6: *TRYPANOSOMA CRUZI*: ONE AGENT OF THE DISEASE OR MANY?**Chairs: M.A. Miles (UK), M. Tibayrenc (France) and G.A. Vallejo (Colombia)**

Date: Thursday, July 22, 2004

Location: Auditorium

Time: 8.30-11.00

Communication EMOP Nos.: 239-245

Keynote Communications:

- 239 M. Tibayrenc.- *Trypanosoma cruzi*: a single entity?
240 M.A. Miles, M.W. Gaunt, N. Acosta, A. Rojas de Arias, H.J. Carrasco, M. Yeo.- Genetic hybridisation in *Trypanosoma cruzi*
241 G.A. Vallejo, F. Guhl, J.C. Carranza, C.A. Cuba-Cuba, C.J. Schofield, O. Triana.- Interaction between *Trypanosoma rangeli* and *Rhodnius* spp: a model for molecular epidemiology in American trypanosomiasis

Free Oral Papers:

- 242 J. Telleria, C. Barnabé, M. Hide, A.L. Banuls, M. Tibayrenc.- Sub-specific phylogenetic analysis of *Trypanosoma cruzi* by studying coding expressed sequences: implications on this parasite's rate of clonal evolution and genetic recombination
243 R. Devera, O. Fernandes, E. Cupolillo, A.M. Macedo, J.R. Coura.- Molecular characterization of *Trypanosoma cruzi* strains before and after maintenance in mice and *in vitro* culturing
244 M. Lana, M.J.O. Toledo.- Genetic instability in clonal *Trypanosoma cruzi* stocks
245 M. Lorca, A. García, M.I. Bahamonde, R. Tassara, E. Urarte, C. Pastene, P. Verdugo, C. Contreras, P. Salinas.- Congenital Chagas disease in Chile: clinical and molecular aspects

SESSION 7: VECTOR PHYSIOLOGY AND *TRYPANOSOMA CRUZI*-VECTOR INTERRELATIONSHIPS**Chairs: G.A. Schaub (Germany), P.M. Guerin (Switzerland) and E.S. Garcia (Brazil)**

Date: Wednesday, July 21, 2004

Location: Room 17 F

Time: 11.00-13.30

Communication EMOP Nos.: 246-249

Keynote Communications:

- 246 P.M. Guerin, F. Otálora Luna, J.L. Perret.- Neurophysiological and behavioural responses of triatomines to host and conspecific odours
247 A.H. Kollien, P.J. Waniek, U. Hendgen-Cotta, A.J. Nisbet, P.F. Billingsley, G.A. Schaub.- Characterisation and regulation of digestive enzyme genes of triatomines
248 G.A. Schaub, S. Hütt, S. Eichler.- Trypanosomatid-triatomine-symbiont interrelationships
249 P. Azambuja, E.M.M. Machado, E.S. Garcia.- Eicosanoid biosynthesis inhibitor-effects on *Trypanosoma rangeli*-*Rhodnius prolixus* vector interaction

**SESSION 8: NEW TOOLS FOR CHAGAS DISEASE SURVEILLANCE
AND IMMUNOLOGY AND GENETIC RESEARCH (I)**

Chairs: R.E. Gürtler (Argentina), M. Fresno (Spain) and M.C. Thomas (Spain)

Date: Thursday, July 22, 2004

Location: Room 17 F

Time: 11.00-13.30

Communication EMOP Nos.: 250-253

Keynote Communications:

- 250 R.E. Gürtler, M.C. Cecere, J. Schachter-Broide, G.M. Vazquez-Prokopec, J.P. Dujardin, U. Kitron.- Eco-Epidemiology of Chagas Disease in northwestern Argentina: application of fine resolution satellite data and wing morphometry to spatial analysis and control
- 251 M.P. Juárez, N. Pedrini, R. Crespo.- Mycoinsecticide improvement against Chagas disease vectors
- 252 M. Fresno.- Alterations of the immune response in Chagas' disease
- 253 M.C. Thomas, S.R. Heras, J.L. García-Pérez, M. Olivares, M. Caro, M.C. López.- Function of mobile genetic elements in trypanosomatids

**SESSION 9: NEW TOOLS FOR CHAGAS DISEASE SURVEILLANCE
AND IMMUNOLOGY AND GENETIC RESEARCH (II)**

Chairs: M.D. Feliciangeli (Venezuela), N. Jaramillo (Colombia) and E. Ponce (Honduras)

Date: Thursday, July 22, 2004

Location: Room 17 F

Time: 15.00-17.00

Communication EMOP Nos.: 254-257

Invited Oral Paper:

- 254 A. Rojas de Arias, N. Acosta, N. González, E. López.- A semiochemical trapping system to monitor Chagas disease vectors

Free Oral Papers:

- 255 S. Revollo, Y. Cerruto, M.L. Soto, W. Strauss.- Discrimination of leishmaniasis in susceptible patients with coinfections with *Leishmania* sp. and *Trypanosoma cruzi* in the province of Caranavi, Department of La Paz, Bolivia
- 256 H. Cuervo, N. Gironès, E. Carrasco-Marín, R. Flores, H. Salgado, I. Chico, M. Fresno.- Cardiac pathology in Chagas disease: role of autoreactive T cells generated during *Trypanosoma cruzi* infection
- 257 D.A. Henriquez, S. Telles.- *Trypanosoma cruzi* ubiquitin: a highly specific antigen in the diagnosis of Chagas disease

SESSION 10: ROUND TABLE ON CHAGAS DISEASE

Chairs: C.J. Schofield (UK), F. Guhl (Colombia) and J.P. Dujardin (France)

Date: Wednesday, July 21, 2004

Location: Room 17 F

Time: 17.30-19.30

Communication EMOP No.: 258

Keynote Communication:

- 258 C.J. Schofield.- Reinvasion from silvatic transmission cycles is a problem for control of Chagas disease?

SESSION 11: POSTERS ON TRYPANOSOMES, TRIATOMINES AND CHAGAS DISEASE (I)

Date: Monday, July 19, 2004

Location: Grand Hall

Time: 12.30-18.30

Communication EMOP Nos.: 259-267

- 259 J. Schachter-Broide, J.P. Dujardin, U. Kitron, R.E. Gürtler.- Seasonal variations in spatial structuring of *Triatoma infestans* (Hemiptera; Reduviidae) populations using wing geometric morphometry
- 260 R. Pérez, V. Rose, G. Bedó, Y. Panzera, E. Loreto, P. Heslop-Harrison, F. Panzera.- *Triato1*, the first retrotransposon identified in Triatominae, is a Pao-like element that locates in the heterochromatin
- 261 F. Panzera, I. Ferrandis, M.D. Bargues, S. Mas-Coma, J.E. O'Connor, R. Pérez.- Nuclear DNA content of main vectors of Chagas Disease by flow cytometry
- 262 D.R. Klisiowicz, F. Panzera, R.S. Pacheco, S. Mas-Coma, M.D. Bargues.- Molecular discrimination between *Triatoma rubrovaria* Blanchard, 1843 (Hemiptera, Reduviidae, Triatominae) populations based on sequence analyses of the ribosomal DNA intergenic region
- 263 P.L. Dorn, A. Rodas, S. Melgar, C. Monroy.- Preliminary Analysis of Microsatellite Markers for Population Genetic Studies of the Chagas vector, *Triatoma dimidiata*
- 264 E. Cuartas, M. Wolff, S. Mas-Coma, N. Jaramillo.- Size and shape differences between field and laboratory populations of *Panstrongylus rufotuberculatus* (Hemiptera: Reduviidae)
- 265 S.S. Catalá, D.M. Maida, H. Caro-Riaño, N. Jaramillo, J. Moreno.- Changes associated with laboratory rearing in antennal sensilla patterns of *Triatoma infestans*, *Rhodnius prolixus*, and *Rhodnius pallescens* (Hemiptera, Reduviidae, Triatominae)
- 266 L. Calleros, D. Klisiowicz, F. Panzera, R. Pérez, M. Lorca, S. Mas-Coma, M.D. Bargues.- Sequence variability in the intergenic region of the rDNA and relationships between species of the genus *Mepraia* Mazza, Gajardo et Jörg 1940 (Hemiptera, Reduviidae, Triatominae)

- 267 E.C. Borges, J.P. Dujardin, C.J. Schofield, A.J. Romanha, L. Diotaiuti.- Dynamic between sylvatic, peridomestic and domestic populations of *Triatoma brasiliensis* (Hemiptera: Reduviidae) at the municipality of Independência, Northeastern Brazil

SESSION 12: POSTERS ON TRYPANOSOMES, TRIATOMINES AND CHAGAS DISEASE (II)

Date: Tuesday, July 20, 2004
Time: 8.30-19.30

Location: Grand Hall
Communication EMOP Nos.: 268-276

- 268 C.E. Almeida, R.S. Pacheco, A. Dávila, E.M. Dotson, J. Costa.- Population structure of *Triatoma brasiliensis* inferred from variation in mitochondrial DNA sequences: an attempt to understanding the domiciliation, invasion and reinfestation processes
- 269 F. Abad-Franch, F.A. Monteiro, H.M. Aguilar, M.A. Miles.- Population-level mitochondrial DNA sequence diversity in *Rhodnius ecuadoriensis*
- 270 J. Telleria, B. Lafay, M. Virreira, C. Barnabé, M. Tibayrenc, M. Svoboda.- Molecular analysis of the hypervariable regions in the minicircle of kinetoplastic genome in *Trypanosoma cruzi*, agent of Chagas' disease
- 271 M.J.O. Toledo, C.T. Miyamoto, A.V. Marangon, M.T. Bahia, S.M. Araújo, M. de Lana, M.L. Gomes.- High sensibility of the Polymerase Chain Reaction (PCR) to detect *Trypanosoma cruzi* in mice blood independent of parasite clonal genotype and phase of infection
- 272 A.M. Mejía-Jaramillo, O. Triana-Chávez.- Genetic variability by LSSP-PCR of two Colombian *Trypanosoma cruzi* strains in blood and organs of infected mice
- 273 M.L. Gomes, L. Zalloum, A.T. Kinoshita, M.J.O. Toledo, S.M. Araújo.- Two genetic groups of *Trypanosoma cruzi* in Paraná State, southern Brazil
- 274 A. Salazar, O. Triana.- Genotyping of Colombian *Trypanosoma cruzi* strains based on LSSP-PCR analyses
- 275 A. Salazar, M. Cadavid, S. Arboleda, F. Escolar, J. Del Mazo, O. Triana.- Sequencing and LSSP-PCR of the Spliced Leader-RNA gene support the presence of two large *Trypanosoma cruzi* populations in Colombia
- 276 P.X. Pavía, C. Calderon, I. Campos, M. Huertas, A.A. Trespalacios, C.J. Puerta.- *Rhodococcus rhodnii*: differentiation from other *Rhodococcus* by a PCR-RFLP based on genes encoding the 16 S rRNA

SESSION 13: POSTERS ON TRYPANOSOMES, TRIATOMINES AND CHAGAS DISEASE (III)

Date: Thursday, July 22, 2004
Time: 8.30-19.30

Location: Grand Hall
Communication EMOP Nos.: 277-301

- 277 H. Díez, C. Calderon, C.L. Cuervo, M.C. Thomas, M.C. López, C.J. Puerta.- Differentiation between KP1(+) and KP1(-) strains of *Trypanosoma rangeli* by a PCR-RFLP based on genes encoding the Kinetoplastid Membrane Protein-11
- 278 H. Díez, M.C. Thomas, M.C. López, J. Rauscher, C.J. Puerta.- Phylogenetic analysis of the kinetoplastid membrane protein 11, KMP-11
- 279 C. Zapata-Madrugal, S.M. Robledo, F. Echeverri, O. Triana.- Use of an enzymatic microassay in the evaluation of the susceptibility of Colombian *Trypanosoma cruzi* strains to benznidazole
- 280 D. Villarreal, M. Hide, C. Barnabé, P. Nirdé, M. Tibayrenc.- Differential gene expression in benznidazole resistant *Trypanosoma cruzi* parasites
- 281 P.X. Pavía, G.A. Vallejo, M. Montilla, R.S. Nicholls, C.J. Puerta.- Detection of *Trypanosoma cruzi* and *Trypanosoma rangeli* in experimental and naturally infected vectors by PCR based on histone H2A and sno-RNA-C11 genes
- 282 D. Sayago.- Evaluation of knowledge, attitudes and practices towards Chagas disease: the case of Curaçá, Bahia, Brazil
- 283 M.J. Sanchez-Martin, C.R. Davies, M.D. Feliciangeli, D. Campbell-Lendrum.- Field studies to evaluate and improve strategies for *Rhodnius prolixus* control in Venezuela
- 284 M.D. Feliciangeli, H. Carrasco, J.S. Patterson, B. Suarez, C. Martínez, M. Medina.- Mixed domestic infestation by *Rhodnius prolixus* Stål, 1859 and *Panstrongylus geniculatus* Latreille, 1811, vector incrimination, and seroprevalence for *Trypanosoma cruzi* among inhabitants in El Guamito, Lara State, Venezuela
- 285 L. Emperaire, C.A. Romaña, D. Sayago, R. Gurgel, C. Damasceno, G. Mejia, A. Venancio, A. Walter.- Human activities, structure of the domestic units and factors of risk in the case of the American trypanosomiasis in Northeast Brazil
- 286 F. Abad-Franch, H.M. Aguilar.- Epidemiology and burden of Chagas disease in Ecuador
- 287 G. Calderón Fernández, M.P. Juárez, M.P. Salazar Schettino, J.M. Ramsey, M.C. Monroy.- Chemical taxonomy of *Triatoma dimidiata* populations from Mexico and Guatemala: analyses of the cuticular hydrocarbon pattern
- 288 N. Acosta, E. López, N. González, E. Ferreira, P. Alcaráz, A. Sartorio, L. Cardozo, A. Rojas de Arias.- Geometric morphometry in *Triatoma sordida* wings of different regions of Paraguay
- 289 G.L. Uzcanga, T. Perrone, J.A. Noda, J. Perez-Pasos, R. Medina, J. Hoebeke, J. Bubis.- A variant surface glycoprotein from *Trypanosoma evansi* is partially responsible for the cross-reaction between *Trypanosoma evansi* and *Trypanosoma vivax*
- 290 M. Morell, M.C. Thomas, T. Caballero, M.C. López.- Analysis of the immune and protective response induced in mice after genetic immunization with *Trypanosoma cruzi* PAR1 and PAR2 coding genes both isolated and fused to HSP70
- 291 E. Garzón, F. Genna, M.F. Bosseno, J. Simony-La Fontaine, M. Radal, D. Sereno, A. Ouaisi, S.F. Brénière.- Infectivity and immunopathology associated to murine experimental infections by two major clones of *Trypanosoma cruzi* belonging to the *T. cruzi* I and *T. cruzi* II lineages
- 292 M. Mendoza, G. Uzcanga, R. Pacheco, J. Bubis, A. Mijares.- Effects of anti-variant surface glycoprotein antibodies on the *Trypanosoma evansi* intracellular Ca²⁺ concentration

- 293 F. Mathieu-Daudé, E. Garzón, J. Lelièvre, M.F. Bosseno, A. Ouaisi, S.F. Brenière.- Differential expression of parasite immunoregulatory factors in discrete genotypes of *Trypanosoma cruzi*
- 294 N. Pedrini, R. Crespo, M.P. Juárez.- Enhancement of entomopathogenic fungal ability to kill *Triatoma infestans*
- 295 R. González, A. Jorquera, E. Marchán, E. Ledezma, A. Routolo.- Isolation of *Trypanosoma cruzi* and *T. rangeli* strains of triatomines from palms in a community of the Sucre state, Venezuela
- 296 L. Calderón-Romero, J. Tay, D. Ruiz-Sánchez, J. Sánchez-Vega, F. Ibarra.- Evaluation of the growth of *Trypanosoma cruzi* in different culture media
- 297 C.E. Durán, D. Rodríguez, F. Tejero.- A densodependent model for *Crithidia fasciculata* populations
- 298 S. Caldas, F.M. Santos, S.B.A. Cáu, I.S. Caldas, V.M. Veloso, H.R. Martins, M. Lana, W.L. Tafuri, M.T. Bahia.- Natural alteration in the susceptibility/resistance pattern to benznidazole in *Trypanosoma cruzi*
- 299 I. Zulantay, X. Coronado, C. Acevedo, W. Apt, M. Gajardo, L.C. Gil, F. Bozán, A. Solari, G. Sánchez.- Anti-live *Trypanosoma cruzi* antibodies show ongoing infection in treated chronic chagasic patients with negative PCR
- 300 G. Sánchez, I. Zulantay, X. Coronado, C. Acevedo, J. Venegas, W. Apt, A. Solari, A. Rojas, E. Reyes.- Polymerase chain reaction to detect *Trypanosoma cruzi* in feces of *Triatoma infestans* fed on patients with chronic Chagas disease
- 301 M.D. Flores, A. Aransay, S. Ortega, M. Rodriguez, C. Cañavate, J. Alvar.- Optimization for detection of *Trypanosoma cruzi* in blood of seropositive subjects: nested PCR in one tube

SYMPOSIUM ON AFRICAN TRYPANOSOMIASIS

Organiser: C.J. Schofield (UK)

SESSION 1: NEW TRENDS IN AFRICAN TRYPANOSOMIASIS

Chairs: J.L. Frezil (France), C.J. Schofield (UK) and P. Solano (France)

Date: Wednesday, July 21, 2004

Location: Auditorium

Time: 11.00-13.30

Communication EMOP Nos.: 302-310

Keynote Communication:

- 302 J.P. Kabayo, C.J. Schofield.- Advances in the control of African Trypanosomiasis

Free Oral Papers:

- 303 P. Solano, V. Jamonneau, S. Ravel, M. Koffi, L. N'Dri, B. Coulibaly, G. Cuny.- Molecular characterization of trypanosomes in humans, tsetse and pigs in the sleeping sickness focus of Bonon, Côte d'Ivoire
- 304 D. Courtin, L. Argiro, V. Jamonneau, L. N'Dri, P. N'Guessan, L. Abel, A. Dessein, C. Laveissiere, A. Garcia.- Polymorphisms of tumor necrosis factor-alpha and interleukin-10 genes promoters may be associated with human African trypanosomiasis by *Trypanosoma brucei gambiense*
- 305 S. Ravel, P. Grébaut, C. Mariani, V. Jamonneau, D. Cuisance, G. Cuny.- Interests and limits of the polymerase chain reaction for monitoring the developmental status of trypanosomes in *Glossina* during experimental infections: a help to explain what is seen in the field
- 306 M. Koffi, P. Solano, S. Ravel, A. Garcia, R. Sanon, L. N'Dri, G. Cuny, V. Jamonneau.- Characterization of *Trypanosoma brucei s.l.* infecting asymptomatic sleeping sickness patients in Côte d'Ivoire: a new genetic group?
- 307 L.G. Cabrera, J. DeWitte, B. Victor, Ketremendi, D. Geysen.- ELISA-PCR for specific detection and differentiation of African trypanosomes in peripheral blood of cattle
- 308 J. Bouyer, A. Sibert, M. Desquesnes, D. Cuisance, S. de la Rocque.- A model of diffusion of tsetse flies on a network
- 309 F. Njiokou, C. Laveissière, G. Simo, S. Nkinin, P. Grébaut, G. Cuny, S. Herder.- Wild fauna as probable animal reservoir for *Trypanosoma brucei gambiense* in Cameroon
- 310 M. Desquesnes, M.L. Dia, J. Bouyer, M. Fatehi.- Mechanical transmission of African *Trypanosoma* spp. by African tabanids

SESSION 2: POSTERS ON AFRICAN TRYPANOSOMIASIS

Date: Wednesday, July 21, 2004

Location: Grand Hall

Time: 8.30-19.30

Communication EMOP Nos.: 311-312

- 311 N.L. Giles, S.A. Reid, A. Armson, R.C.A. Thompson, J.A. Reynoldson.- Characterisation of dinitroaniline binding to tubulin in *Trypanosoma brucei*
- 312 J.S. Patterson, C.J. Schofield.- Preliminary study of tsetse fly wing morphometrics: a potential tool for vector surveillance

**SYMPOSIUM ON
GIARDIA BIOLOGY AND MOLECULAR GENOTYPING**

Organiser: G. Ortega-Pierres (Mexico)

SESSION 1: MOLECULAR GENOTYPING OF *GIARDIA*

Chairs: G. Ortega-Pierres (Mexico) and R.C.A. Thompson (Australia)

Date: Thursday, July 22, 2004

Location: Room 15 I

Time: 8.30-10.30

Communication EMOP Nos.: 330-336

Keynote Communication:

330 S.M. Cacciò.- Molecular characterization of *Giardia duodenalis* from humans and animals

Free Oral Papers:

- 331 F. Berrilli, D. Di Cave, C. De Liberato, P. Scaramozzino, P. Orecchia.- Genotypes of *Giardia duodenalis* from clinical and animal samples in Italy
- 332 L. Eligio-García, A. Cortes-Campos, A. Flores-Luna, E. Jiménez-Cardoso.- Identification of subgroups of *Giardia intestinalis* by Random Amplified Polymorphism DNA (RAPD) and its relationship to host origin
- 333 L. Eligio-García, A. Cortes-Campos, A. Flores-Luna, E. Jiménez-Cardoso.- Genetic diversity among *Giardia intestinalis* isolates from children and dogs based on polymorphism of *tsp 11* and *gdh* genes
- 334 E. Jiménez-Cardoso, L. Eligio-García, A. Cortés-Campos.- Phylogenetic variations among isolates of *Giardia intestinalis*: genetic diversity or zoonosis?
- 335 L. Eligio-García, A. Cortes-Campos, A. Flores-Luna, E. Jiménez-Cardoso.- Analysis of the chromosomal pattern of nine axenic strains of *Giardia intestinalis* by pulsed field gel electrophoresis
- 336 M. Lalle.- The 14-3-3 protein in a "primitive" eukaryote, the parasite *Giardia duodenalis*

SESSION 2: *GIARDIA* BIOLOGY AND GIARDIASIS

Chairs: H.V. Smith (UK) and S.M. Caccio (Italy)

Date: Thursday, July 22, 2004

Location: Room 15 I

Time: 11.00-13.30

Communication EMOP Nos.: 337-342

Keynote Communications:

- 337 H.V. Smith.- *Giardia* and giardiasis: environmental aspects
- 338 R. Argiello-Garcia, M. Cruz-Soto, L. Romero-Montoya, G. Ortega-Pierres.- Variability and variation in drug susceptibility among *Giardia duodenalis* isolates and clones exposed to 5-nitroimidazoles and benzimidazoles *in vitro*

Free Oral Papers:

- 339 A. Nikolic, O. Djurkovic-Djakovic, B. Bobic, S. Katic-Radivojevic, I. Klun.- Zoonotic potential of *Giardia* infection: a study in humans and pets in Belgrade, Serbia
- 340 N. Tanideh, S.M. Sadjjadi, K. Hemyari.- Study of nutritional status in preschool children infected with *Giardia intestinalis*
- 341 M. Azami, M. Valizadeh.- The prevalence and correlation of giardiasis with the nutritional status of primary school students in Isfahan city, Iran
- 342 M. Fallah, M. Ghassemi.- Comparison of the short course therapy with standard dose of metronidazole in giardiasis: a randomized clinical trial

SESSION 3: POSTERS ON *GIARDIA* BIOLOGY AND MOLECULAR GENOTYPING

Date: Thursday, July 22, 2004 Location: Grand Hall

Time: 8.30-19.30

Communication EMOP Nos.: 343-348

- 343 J. Sahagún, A. Clavel, M.T. Llorente, M. Varea, S. Capilla, C. Seral.- Correlation between presence of symptoms in human giardiasis and *Giardia duodenalis* genotype
- 344 A. Toledo, M.A. Allasia, M. Cuquerella, C. de la Fuente, J.M. Alunda.- Preliminary report of *Giardia* infection in sheep farms from central Spain
- 345 S. Shirbazou, M. Kazemi Moghadam, A. Mahmood Zadeh, H. Rafat.- Eye disease manifestations associated with intestinal infection by *Giardia intestinalis*
- 346 E. Motlagh, S. Maraghi.- Anemia due to giardiasis in the city of Ahvaz, southwestern part of Iran
- 347 S.C. Cota-Guajardo, S.M. Gaxiola-Camacho, N.M. Cárcamo-Aréchiga, J.J. Portillo-Loera.- Prevalence of *Giardia lamblia* and other intestinal parasites in child care centers in Mexico
- 348 S.C. Cota-Guajardo, S.M. Gaxiola-Camacho, N.M. Cárcamo-Aréchiga, N. Castro del Campo.- Prevalence of *Giardia* spp. in domestic dogs in Culiacan city, Sinaloa, Mexico
-

II K.E. MOTT SYMPOSIUM ON SCHISTOSOMIASIS AND DISTOMATOSES

Organisers: D. Rollinson (UK), L. Savioli (WHO) and S. Mas-Coma (Spain)

SESSION 1: NEW INSIGHTS INTO SCHISTOSOMIASIS

Chairs: D. Rollinson (UK), J. Jourdane (France) and S. Mas-Coma (Spain)

Date: Tuesday, July 20, 2004

Location: Auditorium

Time: 15.00-17.00

Communication EMOP Nos.: 405-409

Keynote Communications:

- 405 D.A. Johnston and the WHO Schistosome Genome Network.- The schistosome genome project: 10 years on
406 D. Rollinson, A.M. Emery, A.F. Mgeni, S. Khamis, J.R. Stothard.- Schistosomiasis on islands in the Indian Ocean: moving towards control
407 A. Théron, Ch. Coustau.- Are *Biomphalaria* hosts resistant or Schistosome parasites un-infective?: evolutionary implications

Free Oral Papers:

- 408 P. Ribeiro, F. El-Shehabi, A. Mousa.- Studies of neurotransmitter receptors in the parasitic flatworm *Schistosoma mansoni*
409 B.L. Webster, L. A. Tchuem Tchuenté, J. Jourdane, V.R. Southgate.- The interaction of *Schistosoma guineensis* and *Schistosoma haematobium* in Cameroon

SESSION 2: SCHISTOSOMIASIS: TRENDS IN DIAGNOSIS, IMMUNOLOGY, BIOCHEMISTRY AND TREATMENT

Chairs: A. Theron (France), M.J. Doenhoff (UK) and O. Noya (Venezuela)

Date: Tuesday, July 20, 2004

Location: Room 18 F

Time: 17.30-19.30

Communication EMOP Nos.: 410-414

Keynote Communications:

- 410 O. Noya, C. Colmenares, H. Bermúdez, S. Losada, M.A. Lorenzo, B. Alarcón de Noya.- Diagnosis of parasitic diseases with synthetic peptides: how far we have gone?
411 M.J. Doenhoff, D. Cioli, K. Wheatcroft-Francklow, S. Botros.- Praziquantel resistance in *Schistosoma mansoni*

Free Oral Papers:

- 412 P.M. Ferreira, H. Silveira, A. Afonso, M.A.A. Grácio.- Co-infection with *Schistosoma mansoni* and *Plasmodium chabaudi* in C57BL/6 mice: haematological and immunological studies
413 C. Thors, H. Helin, E. Linder.- Carcinoma-cross-reactive antibodies in experimental schistosomiasis
414 M.J. Doenhoff, R.G. Stanley, K. Griffiths, C.L. Jackson.- *Schistosoma mansoni*: inhibition of atherogenesis and lowering of cholesterol levels in mice

SESSION 3: SCHISTOSOMIASIS CONTROL

Chairs: E. Linder (Sweden), B. Alarcón de Noya (Venezuela) and Ch. Coustau (France)

Date: Wednesday, July 21, 2004

Location: Room 18 F

Time: 17.30-19.30

Communication EMOP Nos.: 415-420

Keynote Communication:

- 415 J.R. Stothard, N.B. Kabatereine, F. Kazibwe, E. Tukahebwa, S. Whawell, C. Kamenka, J.P. Webster, A. Fenwick.- Control of intestinal schistosomiasis in Uganda: a review of present activities supported by the Schistosomiasis Control Initiative

Free Oral Papers:

- 416 B. Alarcón de Noya, S. Losada, C. Colmenares, B. García, N. Acuña, M. Castillo, R. Vento, O. Noya.- Laboratory follow-up in patients before and after praziquantel treatment in a community from Venezuela with low schistosomiasis transmission
417 A. El Wakeel, M. Rhafat, F. Curtale, Y. Abd El Wahab, P. Barduagni, M. El Sayed, A. El Shahet, L. Savioli.- The School Health Programme in Behera: control of schistosomiasis, fascioliasis, intestinal helminth infections and anaemia at Governorate level in Egypt
418 H. Moné, G. Mouahid.- Schistosomiasis in low endemic areas: ecological and epidemiological approaches
419 C.T. Wolmarans, L.R. Tiedt.- High prevalence of schistosomiasis in a rural village in South Africa, despite educational, medical and water reticulation infrastructure
420 M. Yakoot.- Mirazid, the novel schistosomicide: lessons from analysis of clinical studies on mixed parasitic infections

SESSION 4: HUMAN AND ANIMAL FASCIOLIASIS (I)

Chairs: S. Mas-Coma (Spain), M.A.A Grácio (Portugal) and F. Curtale (Italy)

Date: Wednesday, July 21, 2004

Location: Room 18 F

Time: 8.30-10.30

Communication EMOP Nos.: 421-426

Keynote Communications:

- 421 S. Mas-Coma.- Human fascioliasis: transmission and epidemiology in endemic areas of South America, Africa and Asia
422 M.A. Valero, M. Panova, S. Mas-Coma.- Phenotypic analysis of adults and eggs of *Fasciola* species by computer image analysis system (CIAS)

Free Oral Papers:

- 423 F. Curtale, Y.A.W. Hassanein, A. El Wakeel, S. Mas-Coma, A. Montresor.- Distribution of human fascioliasis by age and gender among rural population in the Nile Delta, Egypt
424 F. Curtale, S. Mas-Coma, Y.A.W. Hassanein, P. Barduagni, P. Pezzotti, L. Savioli.- Clinical signs and household characteristics associated with human fascioliasis among rural population in the Nile Delta, Egypt
425 K. Ashrafi, M.A. Valero, J. Massoud, A.R. Sobhani, M. Rezaeian, S.J. Shahtaheri, S. Solaymai-Mohammadi, M.V. Fuentes, M.D. Barges, S. Mas-Coma.- Potential fascioliasis human contamination through traditional local foods prepared with fresh wild plants in an endemic area of Guilan province, northern Iran
426 F. Rosa, M.V. Crespo, M. Simões, I.C. Evora, E. Moreira, M.L. Ferreira.- Fasciolosis epidemiology and prospects for its control at Cape Verde Islands

SESSION 5: HUMAN AND ANIMAL FASCIOLIASIS (II)

Chairs: R. Houin (France), I. Fairweather (N Ireland) and P. Barduagni (Italy)

Date: Wednesday, July 21, 2004

Location: Room 18 F

Time: 11.00-13.30

Communication EMOP Nos.: 427-434

Free Oral Papers:

- 427 R. Houin, C. Moquet, C. Czeher, J.P. Vallois.- *Myocastor coypus*, an imported rodent, changes the fundamentals of transmission of *Fasciola hepatica*
428 Y.A.W. Hassanein, M.M. Youssef, A.A. Haggag.- Epidemiology and control of human fascioliasis in Egypt
429 F. Curtale, M. Rahafat, Y.A.W. Hassanein, A. Montresor, L. Savioli.- Selective treatment of human fascioliasis: design, cost, and effect of a screening control programme in hyper-endemic areas of the Nile Delta, Egypt
430 F. Curtale, M. Nabil, A. El Wakeel, M.Y. Shamy.- Intestinal parasites and anaemia among school age children in Behera Governorate, Egypt
431 M.A.P. Conceição, T. Nunes, I.M.H. Costa, E. Silva, A.B.Viana, A.Castro, J.C. Costa.- Fasciolosis – herd-level seroprevalence in small ruminants in Baixo Mondego region
432 F.H.M. Borgsteede, P. Vellema, L. Moll, C.P.H. Gaasenbeek.- Triclabendazole resistance in *Fasciola hepatica* in sheep and cattle in the Netherlands
433 I. Fairweather, G. Brennan, E. Hoey, M.W. Robinson, A. Trudgett, J. Lawson, C.E. Lanusse, L. Mottier, H. Solana, G. Virkel, L. Alvarez.- Drug action and resistance: unravelling the enigma that is triclabendazole
434 M.V. Periago.- Detection of a broad spectrum of variable genotypes in human and animal fasciolids from the Nile Delta (Egypt), an area of endemic fascioliasis

SESSION 6: FASCIOLIASIS DIAGNOSIS AND VACCINATION

Chairs: G.V. Hillyer (USA), J.R. Espinoza (Peru) and M.A. Valero (Spain)

Date: Wednesday, July 21, 2004

Location: Room 18 F

Time: 15.00-17.00

Communication EMOP Nos.: 435-440

Keynote Communications:

- 435 J.R. Espinoza.- Fas2-ELISA in the detection of human infection by *Fasciola hepatica*
436 G.V. Hillyer.- *Fasciola hepatica* antigens as vaccines against fascioliasis and schistosomiasis

Free Oral Papers:

- 437 X.Q. Zhu, S.J. Dong, R.Q. Lin, W.Y. Hungi, C.R. Wang, D.X. Qian, W.Y. Zhang.- DNA polymorphism in the mitochondrial *cox1* and *nad1* fragments of *Fasciola* from mainland China
438 M. Siles-Lucas, C. Vieira, N. Uribe, B. Gottstein, M. Merli, V. Ramajo, A. Plaza, A. Muro.- The 14-3-3 protein: a new vaccine candidate against *Fasciola hepatica* and *Schistosoma bovis*
439 L. Jedlina-Panasiuk, H. Wêdrychowicz.- The influence of the vaccination procedure on the peritoneal leucocytes response in rats immunised with cDNA of S-Glutathione Transferase (GST) of *Fasciola hepatica*
440 M.B. Rokni, A. Bagher Nejad.- Evaluation of Enzyme-linked Immuno-electroTransfer Blot (EITB) method using cysteine protease antigen of *Fasciola hepatica* in laboratory diagnosis of human fasciolosis

SESSION 7: PLANORBID VECTORS OF SCHISTOSOMIASIS

Chairs: V.R. Southgate (UK), E.S. Loker (USA) and C. Jones (UK)

Date: Thursday, July 22, 2004
Time: 11.00-13.30

Location: Room 18 F
Communication EMOP Nos.: 441-448

Keynote Communications:

- 441 J.P. Pointier.- Biological invasions: the case of planorbid snails
442 E.S. Loker, C.M. Adema, S. Brant, R.J. DeJong, L.A. Hertel, T.B. Kepler, G.M. Mkoji, J.A.T. Morgan, S.-M. Zhang.- Molecular studies of *Biomphalaria*: implications for understanding schistosomes, and invertebrate defenses

Free Oral Papers:

- 443 L. Noble, C. Jones, A. Lockyer, D. Rollinson.- Advances in *Biomphalaria glabrata* genomics: the tropical freshwater snail intermediate host for *Schistosoma mansoni*
444 C. Jones, G. Campbell, D. Rollinson, L. Noble.- Lack of genetic diversity in *Biomphalaria pfeifferi*, freshwater snail intermediate hosts of *Schistosoma mansoni*, and the impact of dams on intestinal schistosomiasis transmission in the Senegal River Basin
445 E. Grisorio, P. Brémond, A. Rafalimanantsoa, L. Andriamaro, B. Sellin, M. Mietton.- Transmission of urinary schistosomiasis within and around the irrigation scheme of Dabara, Madagascar: an original case of *Schistosoma haematobium* infection linked to atypical water-related activities
446 M. Fortmann, P. Brémond, A. Rafalimanantsoa, R. Rasatavonjisay, B. Sellin, M. Mietton.- Transmission dynamics of intestinal schistosomiasis within small river basins of the southern central highlands on Madagascar: a new approach based on hydrological patterns related to fluctuations in snail populations
447 F. Rosa, M. Simões, M.L. Ferreira.- *Schistosoma bovis* in natural infections at Santiago Island (Cape Verde)
448 G. Mitta, R. Galinier, P. Tisseyre, J.F. Allienne, C. Coustau.- Gene discovery and expression analysis of immune-relevant genes from *Biomphalaria glabrata* hemocytes

SESSION 8: LYMNAEID VECTORS OF FASCIOLIASIS

Chairs: S.T. Hong (Korea), J.P. Pointier (France) and M.D. Bargues (Spain)

Date: Thursday, July 22, 2004
Time: 8.30-10.30

Location: Room 18 F
Communication EMOP Nos.: 449-455

Keynote Communication:

- 449 M.D. Bargues, S. Mas-Coma.- Reviewing lymnaeids vectors of fascioliasis by ribosomal DNA sequence analyses

Free Oral Papers:

- 450 M.D. Bargues, P. Artigas, J. Jokkela, S. Mas-Coma.- Molecular characterization of lymnaeids from Finland based on nuclear ribosomal DNA ITS-2 sequences
451 M. Kozak-Cieszczyk.- Detection of *Fasciola hepatica* in the intermediate snail host, *Galba truncatula* by PCR
452 M.D. Bargues, P. Artigas, G. Falkner, M. Jakiewicz, J.P. Pointier, S. Mas-Coma.- Usefulness of the rDNA ITS-1 marker for European stagnicoline lymnaeid studies: sequence analysis and phylogeny
453 P. Artigas, M. Khoubbane, A.S. Moghaddam, K. Ashrafi, A.B. Mansoorian, J. Massoud, M.D. Bargues, S. Mas-Coma.- Molecular characterization of lymnaeid snails from endemic fascioliasis zones in Iran: systematics and genotyping
454 K. Ashrafi, J. Massoud, K. Holakuei, M. Mahmoodi, M.A. Jo-afshani, M.R. Hadiani, M.A. Valero, M.V. Fuentes, P. Artigas, M.V. Periago, M.D. Bargues, S. Mas-Coma.- *Lymnaea gedrosiana* naturally infected with *Fasciola gigantica* in the endemic area of human fascioliasis of Bandar-e-Anzali, northern Iran
455 K. Ashrafi, J. Massoud, M. Khoubbane, N. Ebadati, B. Majidi-Shad, B. Rahmati, M. Raji, M.R. Hadiani, F. Najafi, M.A. Valero, M.V. Fuentes, M.D. Bargues, S. Mas-Coma.- The experimental demonstration of *Lymnaea gedrosiana* as a potential intermediate host for transmission of fascioliasis in the endemic zone of Guilan province, northern Iran

SESSION 9: CLONORCHIASIS AND OTHER TREMATODIASES

Chairs: J.Y. Chai (Korea), H.J. Rim (Korea) and M.Y. Manga-González (Spain)

Date: Thursday, July 22, 2004
Time: 15.00-17.00

Location: Room 18 F
Communication EMOP Nos.: 456-460

Keynote Communications:

- 456 H.J. Rim.- Clonorchiasis: an update
457 M.Y. Manga-González.- *Dicrocoelium dendriticum* and dicrocoeliosis: a review of our research
458 J.Y. Chai.- Food-borne intestinal trematodiasis in Korea and Asia

Free Oral Papers:

- 459 Hongman Zhang, Min-Ho Choi, Jan-Ran Yu, Sung-Tae Hong.- Protective responses against reinfection with *Clonorchis sinensis* in rats
460 Sung-Tae Hong, Sang Hyup Lee, Seung-Jin Lee, Weon-Gyu Kho, Mejeong Lee, Shunyu Li, Byung-Suk Chung, Min Seo, Min-Ho Choi.- Sustained-release praziquantel tablet: pharmacokinetics and the treatment of clonorchiasis in beagle dogs

SESSION 10: POSTERS ON SCHISTOSOMIASIS AND DISTOMATOSES (I)

Date: Wednesday, July 21, 2004
Time: 8.30-19.30

Location: Grand Hall
Communication EMOP Nos.: 461-479

- 461 B. Vicente, C. Vieira, M. Siles-Lucas, J. López -Abán, A. Oleaga, A. Plaza, M. Contreras, A. Muro.- Sb15: identification and expression of a *Schistosoma bovis* gene with high homology to the Sm14 fatty acid binding protein from *S. mansoni*
- 462 N. Sandoval, M. Siles-Lucas, J.L. Pérez-Arellano, J. López-Alban, C. Carranza, D. Rollinson, C. Mateos, A. Muro.- Diagnosis of human schistosomiasis from urine samples: a new approach based on the PCR
- 463 A.E. Lockyer, J. Spinks, C.S. Jones, L.R. Noble, D. Rollinson.- Gene expression analysis in the intermediate host snail *Biomphalaria glabrata*, to investigate mechanisms of resistance to *Schistosoma mansoni*
- 464 C.S. Jones, J.L. Gow, R. Mimpfoundi, D. Rollinson, L.R. Noble.- Breeding system and demography shape population genetic structure across ecological and climatic zones in the African freshwater snail, *Bulinus forskalii* (Gastropoda, Pulmonata), intermediate host for schistosomes
- 465 A.M. Emery, R.J. DeJong, C.M. Adema.- The mitochondrial genome of *Biomphalaria glabrata*
- 466 E. Barnwell, A.M. Emery, S. Al-Awaidy, M. Shaban, M.A. Idris, A. Montresor, V.R. Southgate.- Schistosomiasis in the Sultanate of Oman
- 467 S. Belo, M.A.A. Grácio, V. Ramajo, A. Oleaga.- Parasite-specific antibody isotype profile in schistosomiasis intercalatum: application for immunodiagnosis of infection
- 468 R.M.A. Khalifa, M.M.A. El-Nazer, S.M. Abdel-Rahman, E.K.M. Omran.- Morphometric changes in eggs of *Schistosoma haematobium* from Egyptian patients.....468
- 469 A. Oleaga, A. Ramajo-Hernández, R. Pérez-Sánchez, V. Ramajo-Martín.- Prevalence and distribution of the bullfighting cattle farms infected with *Schistosoma bovis* in the province of Salamanca (Spain)
- 470 A. Oleaga, R. Pérez Sánchez, V. Ramajo Martín.- Efficiency of the oral, intramuscular and subcutaneous routes for the experimental infection of hamster and sheep with *Schistosoma bovis*
- 471 R. Pérez-Sánchez, V. Ramajo-Martín, A. Oleaga.- Investigation of *Schistosoma bovis* sample preparation and solubilisation for two-dimensional gel electrophoresis
- 472 N. Sandoval, M. Siles-Lucas, J. López-Abán, C Carranza, J.L. Pérez Arellano, J.M.C. da Costa, A. Seixas, P. Vieira, A. Muro.- Monitorization of an experimental *Schistosoma mansoni* infection in mice by PCR in faecal and urine samples
- 473 B. Vicente, J. López-Abán, V. Ramajo, G. Hillyer, A.R. Martínez-Fernández, J.J. Nogal, E. del Olmo, A. San Feliciano, A. Muro.- Vaccination against *Schistosoma bovis* using a fatty acid binding protein from *Fasciola hepatica* and new immunomodulators in the ADAD system
- 474 M. Rhafat, F. Curtale, A. El Wakeel, P. Barduagni, S. Pomiatto.- The use of community Washing Units to reduce transmission of water-borne parasites in Egypt
- 475 M. Calado, H. Guimaraes, M.A.A. Grácio.- Geographical distribution and enzymatic characterisation of *Planorbarius meitjensis* and *Lymnaea truncatula* of Portugal: preliminary results
- 476 T. Itagaki, M. Kikawa, K. Sakaguchi, J. Shimo, K. Terasaki, T. Shibahara, K. Fukuda, O. Sasaki, S. Yoshihara.- Molecular characterization of *Fasciola* sp. in Asia: comparison with *F. hepatica* and *F. gigantica*
- 477 M.V. Periago, P. Artigas, M. Khoubbane, A.S. Moghaddam, K. Ashrafi, A.B. Mansoorian, J. Massoud, M.D. Bargues, S. Mas-Coma.- Genotypic analysis of adult liver flukes from Iran based on the ribosomal DNA markers ITS-1 and ITS-2
- 478 S.K. Semyenova, E.V. Morozova, G.G. Chisanfova, V.V. Vasilyev, V.V. Gorokhov, A.S. Moskvina, S.M. Tonakanyan, S.O. Movsessyan.- Polymorphism of mitochondrial genes *nad1* and *cox1* in *Fasciola hepatica* populations
- 479 P. Artigas, V. Periago, B. Kiziewicz, M.D. Bargues, S. Mas-Coma.- Molecular characterization of *Fasciola hepatica* from the wild natural host *Bisson bonasus* of Poland

SESSION 11: POSTERS ON SCHISTOSOMIASIS AND DISTOMATOSES (II)

Date: Thursday, July 22, 2004
Time: 8.30-19.30

Location: Grand Hall
Communication EMOP Nos.: 480-510

- 480 M.V. Periago, M. Panova, M.A. Valero, S. Mas-Coma.- Morphometric comparison of adult liver flukes of the species *Fasciola hepatica* and *Fasciola gigantica* from allopatric Palaearctic populations from European and African bovines
- 481 I. Ferrandis, R. Pérez, Y. Panzera, M.D. Bargues, S. Mas-Coma, F. Panzera.- Chromosome studies of *Fasciola hepatica* (Digenea: Fasciolidae) from Uruguay
- 482 P. Artigas, M.D. Bargues, S. Mas-Coma.- Conchiologic morphology of lymnaeid molluscs from Isluga, Rengo and Alazán sectors (Chile)
- 483 M.A. Garcia-Bodelon, M. Arocas, M. Khoubbane, V. Periago, M. Navarro, M.A. Valero, M.D. Bargues, S. Mas-Coma.- Experimental analysis of fasciolid development in small laboratory animals
- 484 M.A. Garcia Bodelon, M. Arocas, M. Khoubbane, M.A. Valero, M.D. Bargues, S. Mas-Coma.- Chronobiology of egg shedding of *Fasciola* sp. in rats from a human Egyptian isolate
- 485 M. Khoubbane, P. Artigas, M.V. Periago, M.A. Garcia-Bodelon, M. Arocas, M. El Sayed, A. El Shahat, A. El Wakeel, P. Barduagni, M.A. Valero, M.D. Bargues, S. Mas-Coma.- Viability and infectivity of a human isolate from the endemic zone of fascioliasis in the Nile Delta (Behera Governorate, Egypt)
- 486 M. Khoubbane, M.D. Bargues, S. Mas-Coma.- Fascioliasis epidemiology in Egypt: lymnaeid susceptibility and their role in the transmission

- 487 M. Khoubbane, G. Sevilla, B. Kiziewicz, M.D. BARGUES, S. Mas-Coma.- Embryogenesis and viability of *Fasciola hepatica* eggs from the wild natural host *Bisson bonasus* of Poland
- 488 K. Ashrafi, J. Massoud, K. Forghan-Parast, Z. Ali-Nejad, B. Rahmati, S.M. Rezvani, K. Fazaei, A. Nimasa, M.A. Valero, M.V. Fuentes, M.D. BARGUES, S. Mas-Coma.- The possible role of *Lymnaea gedrosiana* in the transmission of *Fasciola hepatica* in the endemic zone of human fascioliasis in Guilan province, Caspian sea littoral, northern Iran
- 489 W. Zhang, E. Moreau, B. Yang, Z. Li, W. Huang, A. Chauvin.- Humoral and cellular immune responses to *Fasciola gigantica* experimental infection in buffaloes
- 490 O. Timoteo, V. Neyra, G. Leguía, J.R. Espinoza.- Characterization of the humoral immune response in alpacas experimentally infected with *Fasciola hepatica*
- 491 W. Kuzna-Grygiel, M. Parafiniuk, L. Kolodziejczyk.- Glycogen content in the liver of mice, in the course of fasciolosis, estimated with the aid of image-processing computer software
- 492 J. López-Abán, A.M. Espino, G.V. Hillyer, N. Uribe, P. Casanueva, J.J. Nogal, A.R. Martínez-Fernández, A. Muro.- Vaccination against *Fasciola hepatica* with a saposin-like protein -FhSAP-2- using the ADAD system
- 493 J.J. Nogal-Ruiz, A. Muro, J. López-Abán, A. Plaza, E. del Olmo, A. San Feliciano, G.V. Hillyer, M.M. Martínez-Grueiro, A.R. Martínez-Fernández.- Vaccination against *Fasciola hepatica* using ADAD system with Fh12 antigen and new immunomodulators
- 494 N. Uribe, M. Mezo, M. González-Warleta, J. López-Abán, F. M. Ubeira, J.J. Nogal, A.R. Martínez-Fernández, A. Muro.- Vaccination against *Fasciola hepatica* using the ADAD system and two homologue proteins from the excretory/secretory antigen
- 495 Y. Vera-Montenegro, J. Bautista-Ordoñez, F. Ibarra-Velarde, R. Rosiles-Martínez, A. Hernández-Campos, R. Castillo-Bocanegra.- Chromatographic assay of the kinetics of a new experimental fasciolicide in milk from cattle
- 496 Y. Vera-Montenegro, F. Ibarra-Velarde, G. Cantó-Alarcon, A. Hernández-Campos, R. Castillo-Bocanegra.- Biochemical analysis and physiological constants of cattle treated with an experimental fasciolicide
- 497 F. Ibarra-Velarde, R. López-Arellano, Y. Vera-Montenegro, G. Cantó-Alarcón, A. Hernández-Campos, R. Castillo-Bocanegra.- Compound alpha: compared efficacy between a suspension and a bolus formulation against *Fasciola hepatica* in cattle
- 498 N. Rivera, F. Ibarra, A. Zepeda, T. Fortoul, A. Hernández, R. Castillo, G. Cantó.- Tegumental surface changes in adult *Fasciola hepatica* following treatment *in vitro* and *in vivo* with an experimental fasciolicide
- 499 A. Martínez-Moreno, P.N. Gutiérrez, L. Buffoni, F.J. Martínez-Moreno, R. Zafra, J. Pérez, S. Hernández-Rodríguez.- Effects of challenge infections on parasite development, liver pathology and immune response of experimental fasciolosis in goats
- 500 M.I. Cruz, E.G. Naranjo, M.T. Quintero, V.F. Ibarra, R.H. Quiroz, J.L. Lecumberri.- Current data on Lymnaeidae, Physidae, Succineidae, Helicidae and Planorbidae in two locations in Mexico
- 501 B. Kiziewicz.- Fungi and fungus-like-organisms isolated from *Fasciola hepatica* eggs and adults parasitising aurochs *Bison bonasus* of the Bialowieza National Park in Poland
- 502 S. Li, S.J. Hong, M.H. Choi, S.T. Hong.- Cloning and characterization of β -tubulin gene of *Clonorchis sinensis*
- 503 S. Li, B.S. Chung, M.H. Choi, J.R. Yu, S.T. Hong.- Male reproductive organ specific antigenic proteins of *Clonorchis sinensis*
- 504 J.S. Lee, I.S. Kim, W.M. Sohn, J. Lee, T.S. Yong.- A DNA vaccine encoding fatty acid binding protein of *Clonorchis sinensis* induces protective immunity in SD rats
- 505 P.Y. Cho, T.Y. Kim, S.Y. Kang, S.T. Hong, M.H. Choi, S.J. Hong.- *Clonorchis sinensis* WD-repeat protein: molecular cloning, expression and biological characterization
- 506 D. Choi, S.T. Hong, B.S. Chung, J.H. Lim, S.Y. Cho, H.J. Rim, Z. Ji, R. Yuan, S. Wang.- Sonographic findings of active *Clonorchis sinensis* infection
- 507 H. Zhang, C.H. Lee, S. Li, M.H. Choi, S.T. Hong.- Lethal effect of ammonia on metacercariae of *Clonorchis sinensis*
- 508 R.G. Fattakhov.- Antropogenic impact on opisthorchiasis foci in the north of Tumen region
- 509 B. Revilla-Nuín, M.Y. Manga-González, M.P. del Pozo-Carnero, C. González-Lanza.- Purification and identification of a *Dicrocoelium dendriticum* specific antigen
- 510 M. Villa, I. Montoliu, L.H. Velasquez, I. Velez, I.D. Velez.- The chaetotaxy of *Paragonimus* sp. cercariae from a tropical humid forest in the north-west of Colombia

SYMPOSIUM ON TAENIASIS, CYSTICERCOSIS AND OTHER METACESTODES

Organiser: M.T. Galán-Puchades (Spain)

SESSION 1: TAENIASIS, CYSTICERCOSIS AND OTHER METACESTODES

Chairs: M.T. Galán-Puchades (Spain), K.S. Eom (Korea) and C. Sánchez-Acedo (Spain)

Date: Tuesday, July 20, 2004

Location: Room 14 F

Time: 17.30-19.30

Communication EMOP Nos.: 533-539

Keynote Communication:

533 K.S. Eom.- Comparative genomic approaches to *Taenia asiatica*

Free Oral Papers:

534 M.T. Galán-Puchades, M.V. Fuentes.- Concerning the identification of human *Taenia* species

535 R. Rodríguez-Canul, F. Cen-Aguilar, J.A. Pérez-Vega, L. Alpuche-Ojeda, L.A. Cetina-Euán, G. Cisneros-Hernández, J.P. Huchim-Mián, J.L. Domínguez-Alpizar, P.S. Craig.- Epidemiology of *Taenia solium* porcine cysticercosis in southern Mexico

536 I. Altamirano, C. Thors, F. Espinosa, A. Barragan, E. Linder.- High prevalence of cysticercosis among pigs slaughtered in the Leon area, Nicaragua, a morphological and serological study

537 S. D'Amelio, S. Gabrielli, M. Busi, S. P. Calderini, G. Masotti, A. Iori, G. Cancrini.- Morphological and molecular characterization of taeniid metacestodes found in Central Italy

538 Y.J.F. Garin, M.T. Galán-Puchades, A. Moulignier, G. Robert, F. Héran, M. Polivka, P.D. Olson, F. Lorenzo, F. Derouin, D.B. Conn.- Human brain abscess due to a tetra-acetabulate plerocercoid metacestode (Cyclophyllidea)

539 E. Ferrer, P. Bonay, M. Foster, L.M. González, M. Cortéz, I. Dávila, L.S.J. Harrison, R. Parkhouse, T. Gárate.- Molecular cloning and characterisation of *Taenia solium* metacestode excretory/secretory diagnostic antigens

SESSION 2: POSTERS ON TAENIASIS, CYSTICERCOSIS AND OTHER METACESTODES

Date: Tuesday, July 20, 2004 Location: Grand Hall

Time: 8.30-19.30

Communication EMOP Nos.: 540-554

540 P. Foronda Rodríguez, M. Hernández Ferrer, A.C. González García, M.A. Santana Morales, A. Ortega Rivas, N. Abreu Aocosta, J.C. Casanova.- Systematic study of several cyclophyllid families (Cestoda) based on 18S rDNA gene sequences

541 N. Villalobos, E. Ferrer, L.M. González, M.M. Cortéz, C.M. Aguilar, R.M.E. Parkhouse, T. Gárate.- Isolation and characterization of cDNAs from *Taenia solium* tapeworm (scolex and neck) expression library

542 N. Villalobos, L.M. González, R. Alamo Sanz, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Identification of larval cestodes in the cattle and pig by molecular tools

543 A. Hinojosa-Juarez, G. Arteaga, G. Zúñiga, A. Monroy-Ostria.- Molecular epidemiology of *Taenia solium* metacestode isolates from Mexico State, Mexico

544 A.S. Bessonov.- *Taeniaerhynchus saginatus* and *Cysticercus bovis* infections: the novel data on endemicity in the Russian Federation

545 A.S. Bessonov.- Epidemiology of taeniosis *Taenia solium* cysticercosis infections in Russia

546 E. Ferrer, L. Benítez, M.M. Cortéz, I. Dávila, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Application of synthetic peptides in the human cysticercosis diagnosis

547 E. Ferrer, J.A. Martínez-Escribano, M.E. González-Barderas, P. Resino, M.M. Cortéz, I. Dávila, L. Benítez, L.M. González, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Expression in Baculovirus system of a *Taenia saginata* 18 kDa oncospheres secreted protective antigen, evaluation of its antigenicity and comparison with its expression in prokaryotic system

548 E. Ferrer, L.M. González, M. Foster, M. Cortéz, I. Dávila, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Molecular characterization of a *Taenia solium* metacestode tegumental antigen

549 E. Ferrer, J.A. Martínez-Escribano, M.E. González-Barderas, P. Resino, M.M. Cortéz, I. Dávila, M. Foster, L.M. González, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Expression in Baculovirus infected *Spodoptera frugiperda* insect cells and *Trichoplusia ni* larvae of a *Taenia solium* metacestode excretory/secretory diagnostic antigen

550 V. Arsic-Arsenijevic, A.M. Dzamic, S. Djukic, L. Ranin.- IgG detection in serum and cerebrospinal fluid samples from patients with neurocysticercosis in Serbia and Montenegro

551 L.M. González, E. Ferrer, S. Puente, J.L. Díaz de Tuesta, T. Serra, R. López-Velez, L.J.S. Harrison, R.M.E. Parkhouse, T. Gárate.- Differential diagnosis of *Taenia saginata* and *Taenia saginata asiatica* taeniasis through PCR

552 L.M. González, I. Fuentes, N. Villalobos, S. Puente, T. Gárate.- Differential diagnosis of human taeniasis in the Department of Parasitology, Centro Nacional de Microbiología, Instituto de Salud Carlos III

553 R. Rodríguez Canul, A. Peniche Cardeña, J.L. Domínguez Alpizar, R. Simá Alvarez, F. Argáez Rodríguez, J.A. Pérez Vega, F. Cen-Aguilar, P.S. Craig.- Chemotherapy of porcine cysticercosis with Albendazole Sulphoxide

554 C. Agustí, F.J. Aznar, P.D. Olson, D.T.J. Littlewood, J.A. Raga.- Molecular characterization of tetraphyllidean metacestodes from Western Mediterranean dolphins

**SYMPOSIUM ON
ECHINOCOCCOSIS**

Organiser: P. Dubinsky (Slovak Republic)

SESSION 1: *ECHINOCOCCUS MULTILOCULARIS* AND ALVEOCOCCOSIS

Chairs: P. Dubinsky (Slovak Republic), T. Romig (Germany) and P. Giraudoux (France)

Date: Thursday, July 22, 2004
Time: 8.30-10.30

Location: Room 14 I
Communication EMOP Nos.: 555-559

Keynote Communications:

- 555 T. Romig.- Epidemiology of *Echinococcus multilocularis* in Europe: recent trends and developments
556 P. Giraudoux, D. Pleydell, F. Raoul, F.P. Tourneux, F. Cliquet, B. Combes, F. Boue, F. Catarelli, G. Duscher, J. Gawor, K. Martinek, M. Miterpakova, F. Tolle, M. Varady, T. Romig.- Environmental risk factors for transmission and representing *Echinococcus multilocularis* gradients in space and time: fox data, models and scale dependencies

Free Oral Papers:

- 557 A. Casulli, G. La Rosa, M.T. Manfredi, A.R. Di Cerbo, A. Dinkel, T. Romig, P. Deplazes, C. Genchi, E. Pozio.- Copro-diagnosis of *Echinococcus multilocularis* in red foxes (*Vulpes vulpes*) from the Trentino Alto Adige region (northern Italy) by a nested PCR analysis
558 A. Malczewski, J. Gawor, M. Malczewska.- *Echinococcus multilocularis* in red foxes (*Vulpes vulpes*) as a risk of alveolar echinococcosis for human in Poland
559 N. Altintas, A. Yolasigmaz.- Echinococcosis and other helminthic diseases in Turkey

SESSION 2: ECHINOCOCCUS GRANULOSUS AND HIDATIDOSIS

Chairs: A. Malczewski (Poland), N. Altintas (Turkey) and J. Guisantes (Spain)

Date: Thursday, July 22, 2004
Time: 11.00-13.30

Location: Room 14 I
Communication EMOP Nos.: 560-567

Free Oral Papers:

- 560 C. Akisu, S.B. Delibas, C. Bicmen, U. Aksoy, S. Ozkoc, N. Turgay.- Comparative evaluation of liver and pulmonary cystic echinococcosis by Western Blotting
561 M. Azami.- The prevalence of hydatid cyst infection in slaughtered animals at Isfahan slaughterhouse during the 2002-2003 period
562 B. Buttari, R. Riganò, E. Profumo, E. Ortona, P. Margutti, A. Siracusano.- Maturation of dendritic cell 2 phenotype by *Echinococcus granulosus* antigens
563 Z. Galitza, E. Bazarsky, R. Sneier, J. Peiser, J. El-On.- *Echinococcus granulosus*: effect of repeated chemotherapeutic treatment after surgical cyst removal on specific anti-echinococcal antibody activities
564 R.M.A. Khalifa, L.O.M. EL-Majdoub, N.A.M. Mazen, A. Marwan.- Prevalence of cystic echinococcosis in livestock animals from Misurata City, Libya
565 H. Shirzadeh, D. Yousefi, S. Hossein, G. Shahabi, K. Kohansal.- A survey on haematological changes in hydatid cyst infected mice
566 M.H. Sarmast Shoushtari, A.H. Talaizadeh, S. Maraghi, E. Mashhadizadeh.- Diffuse intra-abdominal hydatid cysts
567 H. Taherkhani, M.T. Rogan, E. Omidinia, K.H. Sardarian.- Screening of a large number of clinically positive and negative human sera in ELISA against laminated layer and cyst fluid antigens of *Echinococcus granulosus*

SESSION 3: POSTERS ON ECHINOCOCCOSIS

Date: Thursday, July 22, 2004 Location: Grand Hall
Time: 8.30-19.30

Communication EMOP Nos.: 568-593

- 568 J.M. Bart, S. Morariu, J. Knapp, M. Pitulescu, L. Toch, A. Anghel, I. Cosoroaba, R. Piarroux.- Molecular epidemiology of cystic echinococcosis in western Romania: evidence of circulation of two *Echinococcus granulosus* strains
569 J. Knapp, J.M. Bart, A. Chalon, F. El-Garch, I. Breyer, P. Morgenthaler, B. Gottstein, R. Piarroux.- Interest of microsatellite analysis to assess genetic diversity in *Echinococcus multilocularis*
570 M. Lorca, A. García, P. Neira, C. Alvarez, A. Fritz.- Identification of the *Echinococcus granulosus* strains in human, ovine and bovine hydatid cyst in Chile
571 K.L. Haag, P. Zanotto, L. Alves-Junior, R. Gasser, A. Zaha, F.J. Ayala.- Detection of positively selected sites in the antigen B gene family of *Echinococcus granulosus*
572 Gh. Olteanu, D. Panaitescu.- Echinococcosis/hydatidosis in man and animals in Romania
573 K. Hazrati Tappeh, J. Mousavi, J. Fereidoni.- Production of experimental hydatid cyst infection in the eye, periton and liver of BALB/c rats in vivo
574 V. Blagoeva, N. Andreeva, A. Massarlieva.- Personal experience in the chemotherapy of human echinococcosis: successes and failures
575 R.M.A. Khalifa, N.A. Mazen, A.M. Ahmed, L.O.A. El-Magdoub.- Abnormal presentations of cystic hydatid cysts from livestock in Misurata, Libya
576 N.B. Terenina, M.K.S. Gustafsson, S.O. Movsessian, O.O. Tolstenkov.- Patterns of nervous and muscle systems in adult *Echinococcus multilocularis*
577 V. Letková, P. Lazar, J. Curlík, M. Goldová, A. Kocisová, L. Kosuthová.- Epidemiology of *Echinococcus multilocularis* in red foxes (*Vulpes vulpes*) in East Slovak territory

- 578 G. Bosquet, S. Lahmar, D. Saboulard, M.E. Sarciron, A.F. Pétavy.- Locations during development and immunogenic properties of EgA31 a protein from *Echinococcus granulosus*
- 579 M. Fraize, M.E. Sarciron, D. Saboulard, S. Azzouz, G. Bosquet, A.F. Petavy.- In vitro model to evaluate immunogenicity of three candidates vaccines antigens against *Echinococcus* spp.
- 580 T. Inceboz, M. Korkmaz, F. Çelebi, A. Uner.- The first report of *Echinococcus multilocularis* human strain isolation in *Rattus norvegicus* in Turkey
- 581 T. Inceboz, Y. Göktay, Ö. Sagol, M. Korkmaz, A. Uner.- Doppler ultrasonographic findings of *Echinococcus multilocularis*: an experimental study
- 582 T. Inceboz, M. Korkmaz, Y. Tokat, A. Uner.- The first report on *Echinococcus multilocularis* human strain isolation in *Meriones unguiculatus* in Turkey
- 583 T. Inceboz, M. Korkmaz, A. Uner.- A new technique to avoid losing the strains of *Echinococcus multilocularis* during passaging
- 584 M. Mahdavi, J. Massoud.- Scolicidal effects of aqueous and alcoholic extracts and total alkaloids of the seed of *Peganum haramala* L. on hydatid cyst protoscolices
- 585 M. Miterpáková, P. Dubinsky, K. Reiterová, M. Várady, N. Machková.- Spatial distribution patterns of *Echinococcus multilocularis* among red foxes in the Slovak Republic
- 586 S. Popescu, A. Radulescu, G. Petriceanu, V. Alexandru.- Some features of immune mediated cellular responses in naturally infected cattle with *Mycobacterium bovis* and *Echinococcus* spp.
- 587 M.H. Radfar, N. Iranyar, S. Tajalli.- Biochemical profiles of hydatid cyst fluids of *Echinococcus granulosus* of human and animal origin in Iran
- 588 M.H. Sarmast Shoushtari, A.H. Talaizadeh, T. Fazeli, A. Rafiei, S. Maraghi, M. Jelowdar.- Muscular hydatidosis in southwestern part of Iran: report of three cases
- 589 M.R. Siavashi, M. Farahpoor, I. Mobedi, A.R. Khabiri, F. Bagheri.- General characteristics of laminated layer of sheep hydatid cyst
- 590 M. Tosti.- SEM and TEM observations on bovine *Echinococcus granulosus granulosus* fertile cyst
- 591 H. Salehi.- Albendazol as a good drug for disseminated hydatid cyst
- 592 D. Dorostcar Moghaddam, M. Amrolahei.- Evaluation of a countercurrent immunoelectrophoresis for the detection of hydatid antigen in urine
- 593 A.H. Talaizadeh, M.H. Hafezai, M.R. Pipelzadeh.- Surgical outcome of hydatid cyst without scolicidal agents

**SYMPOSIUM
NEW INSIGHTS INTO FILARIAL NEMATODES:
FROM BIOLOGY TO PATHOGENESIS AND CONTROL**

Organisers: C. Genchi (Italy), F. Simón (Spain) and C. Bandi (Italy)

**SESSION EMOP 4: FILARIAL NEMATODES: BIOLOGY, SYSTEMATICS, GENOMICS
AND CURRENT PERSPECTIVES FOR THEIR CONTROL**

Chairs: D.H. Molyneux (UK), M. Blaxter (UK) and C. Bandi (Italy)

Date: Wednesday, July 21, 2004

Location: Auditorium

Time: 8.30-10.30

Communication EMOP Nos.: 759-762

Keynote Communications:

- 759 M.L. Eberhard.- Microfilariae behavior: deserving of further study
- 760 M. Blaxter.- Deconstructing "Spirurida" with molecular phylogenetic markers
- 761 L. Simoncini, L. Ferretti, T. Beninati, G. Valle, F. Simonato, C. Bandi.- The genome of *Wolbachia* from *Dirofilaria immitis*
- 762 D.H. Molyneux.- Lymphatic filariasis elimination: progress and challenges

**SYMPOSIUM ON
TICKS AND TICK-BORNE DISEASES**

Organiser: M. Labuda (Slovakia)

SESSION 1: RESEARCH TRENDS ON TICK SALIVA,

AND ECOLOGY AND CONTROL OF TICK-BORNE DISEASES

Chairs: M. Labuda (Czech Republic), L.B. Coons (USA) and M.P. Martín-Mateo (Spain)

Date: Wednesday, July 21, 2004
Time: 8.30-10.30

Location: Room 14 I
Communication EMOP Nos.: 771-778

Keynote Communication:

771 P.A. Nuttall.- How does tick saliva promote tick-borne pathogen transmission?

Free Oral Papers:

- 772 L.B. Coons, J.L. Tzefakes, R. Blaudow, S. Frase, L. Boykins, C. Thompson, M. Rothschild, C.M. Williams.- Salivary gland degeneration in *Dermacentor variabilis*: necrosis or programmed cell death
- 773 J.F. Barandika, M. Barral, E. Berriatua, A.L. García-Pérez.- Increased abundance of Ixodidae in recreational areas in the Basque Country in Spain
- 774 M. Yakhchali, Sh. Hajihasanazadehzarza.- Study on some ecological aspects and prevalence of different species of hard ticks (Acarina: Ixodidae) on cattle, buffalo and sheep in Oshnavieh suburb
- 775 H. Rusnáková, J. Benesová, A. Zákovská.- Host response to *Borrelia afzelii* in BALB/c mice
- 776 P.M. Guerin, C. McMahon, T. Kröber.- *In vitro* assays for repellents and deterrents for ticks
- 777 A. Zákovská, H. Martiníková.- Long-term monitoring of the prevalence of spirochaete in *Ixodes ricinus* in Pisárky locality, Brno city
- 778 Z. Telmadarraiy, J. Rafinejad, O. Banafshi, H. Vatandoost, M. Abulhasani, F. Faghih Naeini, M. Jedari.- Faunistic investigation on soft ticks and infection of *Ornithodoros tholozani* with *Borrelia persica* in Bijar, Kordistan province, Iran in 2003

SESSION 2: TICK-BORNE PATHOGEN TRANSMISSION AND MOLECULAR EPIDEMIOLOGY

Chairs: P.A. Nuttall (UK), T. de Meeus (France) and A. Soler-Cruz (Spain)

Session shared with MEEGID 7

Date: Wednesday, July 21, 2004
Time: 11.00-13.30

Location: Room 14 I
Communication EMOP Nos.: 779-787

Keynote Communication:

779 M. Labuda.- Tick-borne pathogen transmission and the tick-host interface

Free Oral Papers:

- 780 P. Fernández-Soto, R. Pérez-Sánchez, A. Encinas-Grandes, R. Álamo Sanz.- Detection and identification of rickettsiae and other tick-borne pathogens in ticks feeding on humans in Castilla y León (Spain)
- 781 T. de Meeûs, C. Delaye, A. Aeschlimann, L. Beati, Y. Lorimier, P.-F. Humair, C. Grunau, F. Renaud.- The population genetics of *Ixodes ricinus* and Lyme borreliosis in Switzerland
- 782 E. Janoukvcová, K. Pejchalová, K. Vostal, P. Nejedlá, A. Holíková, M. Mejzlíková, H. Martiníková, A. Zákovská, J. Halouzka, M. Dendis.- Species identification of *Borrelia burgdorferi sensu lato* from tick, rodent, mite and mosquito isolates in the Czech Republic
- 783 D. Nagore, J. García-Sanmartín, A.L. García-Pérez, R.A. Juste, A. Hurtado.- Detection and identification of equine *Theileria* and *Babesia* species by Reverse Line Blotting: epidemiological survey and phylogenetic analysis
- 784 K. Pejchalová, A. Zákovská, K. Fucík, P. Schánílec.- Serological confirmation of *Borrelia burgdorferi* infection in dogs from the Czech Republic
- 785 K. Vostal, J. Netušil, A. Zákovská.- Detection of antiborrelian antibodies in blood of small rodents and the occurrence of borreliae in mites parasiting on them
- 786 D. Sumilo, A. Bormane, S.E. Randolph.- Increased incidence of tick-borne encephalitis in the Baltic States: possible causes
- 787 L. Vial, G. Diatta, A. Tall, P. Durand, E. Ba, H. Bouganali, A. Spiégel, C. Sokhna, C. Rogier, F. Renaud, J.F. Trape.- Emerging tick-borne relapsing fever in Sudanan part of Senegal: identification of host and environmental factors influencing the epidemiology of the disease

SESSION 3: POSTERS ON TICKS AND TICK-BORNE DISEASES

Session shared with MEEGID 7

Date: Wednesday, July 21, 2004
Time: 8.30-19.30

Location: Grand Hall

Communication EMOP Nos.: 788-810

- 788 E. Aguirre, M.A. Tesouro, L. Ruiz, I. Amusatogui, A. Sainz.- *Anaplasma platys* in Spain: first molecular characterization in a dog with clinical ehrlichiosis
- 789 E. Aguirre, A. Sainz, S. Dunner, I. Amusatogui, L. López, F. Rodríguez-Franco, I. Luaces, O. Cortés, M.A. Tesouro.- First isolation of an ehrlichial agent in dogs in Spain
- 790 A. Rymaszewska, B. Skotarczak.- Identification of *Anaplasma phagocytophila* (early *Ehrlichia phagocytophila*) in *Ixodes ricinus* ticks in West Pomerania, Poland
- 791 B. Skotarczak, M. Adamska, A. Rymaszewska.- Detection of DNA of *Ehrlichia phagocytophila* in blood, spleen and liver of roe deer (*Capreolus capreolus*) from northwest Poland

- 792 B. Wodecka, B. Skotarczak.- First isolation of *Borrelia lusitaniae* DNA from *Ixodes ricinus* ticks in Poland
- 793 B. Skotarczak, B. Wodecka.- Molecular and serological study of *Borrelia burgdorferi sensu lato* in naturally exposed dogs from Poland
- 794 D. Ambrasiene, I. Vascilo, A. Jenkins, L. Strand, A. Paulauskas.- Detection and identification of *Borrelia burgdorferi sensu lato* genospecies, *Ehrlichia* and *Babesia* parasites in *Ixodes ricinus* ticks from Lithuania using molecular genetic methods
- 795 G. Martín-Sánchez, R. Pérez-Sánchez, A. Encinas-Grandes.- Determination of the time and place at which the synthesis of salivary antigens takes place in *Ornithodoros erraticus* and *O. moubata*
- 796 G. Martín-Sánchez, R. Pérez-Sánchez, A. Encinas-Grandes.- Collection of primary cultures of digestive cells from *Ornithodoros erraticus*
- 797 M.A. Casado, P. Anda, F. Valcárcel, J.A. Rodríguez Rodríguez, A. Sánchez-Covisa, A.S. Olmeda.- Seasonal activity of ticks in central Spain
- 798 C. Martínez-Carrasco, J. Gomis, M.R. Ruiz de Ybáñez, F.D. Alonso.- Tick infestation on mouflon, fallow deer and Iberian red deer in the Sierra de Cazorla, Segura y las Villas Natural Park, Spain: preliminary results
- 799 A. Movila, I. Uspenski.- Peculiarities of the ecology of the ixodid ticks *Dermacentor reticulatus* Fabr. and *Ixodes ricinus* L. (Acarina, Ixodidae) in the various nidi of the urbacenos in the city of Chisinau, Republic of Moldova
- 800 G. Földvári, R. Farkas.- Ixodid tick species attaching dogs in Hungary
- 801 M. Nowak, K. Siuda.- Ticks (Acari Ixodida: Ixodidae) transferred on reptiles *Varanus exanthematicus* and *Python regius* from Afrotropical region to Central Europe
- 802 M.H. Radfar, S. Tajalli, S.A. Soltani.- Assessment of natural tick infestation (Family Ixodidae) on cattle, sheep, goat and camel in Kerman, southeastern Iran
- 803 S.M. Gaxiola, M.T. Quintero, J.E. Borbolla, J. Gaxiola, M.C. Rubio, J.A. Pérez.- Infestation of dogs by *Rhipicephalus sanguineus* (Latreille, 1806) ticks in Culiacan, Sinaloa, Mexico
- 804 V. Letková, J. Mojzisoová, R. Winkler, V. Hipíková, V. Bajová, M. Letko.- Seroprevalence of *Ehrlichia canis* among dogs in Slovak Republic
- 805 E.C. Coipan, V. Purcarea-Ciulacu, G. Nicolescu, A. Vladimirescu.- Tick species distribution and Lyme disease in Romania
- 806 D. Kosik-Bogacka, W. Kuzna-Grygiel, K. Bukowska, K. Gornik.- The prevalence of spirochetes, *Borrelia burgdorferi sensu lato* in ticks, *Ixodes ricinus* and mosquitoes in north-western Poland
- 807 P. Fernández-Soto, R. Pérez-Sánchez, A. Encinas-Grandes, R. Álamo Sanz.- First detection and identification of *Rickettsia helvetica* and *Rickettsia* sp. IRS3/IRS4 in *Ixodes ricinus* ticks found on humans in Spain
- 808 I. Vascilo, D. Ambrasiene, J. Turcinaviciene, A. Jenkins.- Studies on the seasonal activity of *Ixodes ricinus* ticks and molecular detection of *Borrelia burgdorferi sensu lato* genospecies in Lithuania
- 809 A.S. Olmeda, M.A. Habela, E. Díez, M.A. Casado-Nistal, N.F. Pato, F. Valcárcel, A. Graegera-Slikker, R. González-Sevilla, T. Camacho, P. Forés, A. Meana.- Vectorial capacity of *Rhipicephalus bursa* in the transmission of *Theileria equi*
- 810 S. Chinikar, A. Fayaz, R. Mirahmadi, V. Mazaheri, F. Ahmadnejad, P. Nabeth, M.F. Saron.- A four year laboratory survey of Crimean-Congo Haemorrhagic Fever (CCHF) in Iran

SYMPOSIUM ON PARASITES OF MEDICAL IMPORTANCE

Chairs: J.H. Cross (USA) and A.R. Martínez-Fernández (Spain)

SESSION 1: PROTOZOAN AND HELMINTHIC INFECTIONS

Chairs: J.H. Cross (USA), A.J. Dos Santos Grácio (Portugal) and R. López-Velez (Spain)

Date: Wednesday, July 21, 2004

Location: Room 14 I

Time: 15.00-17.00

Communication EMOP Nos.: 849-854

Keynote Communication:

849 J.H. Cross.- Update on capillariasis philippinensis

Free Oral Papers:

850 C. Tarantino.- Anticryptosporidial *in vitro* activity of two extracts of *Artemisia verlotorum*

851 M. Azami, M. Valizadeh.- A comparative study of *Trichomonas vaginalis* treatment with single and seven day metronidazole regimen

852 Y. Hamedi, M. Haidari.- *Cryptosporidium parvum* infection in children with watery diarrhea in southeast of Iran

853 E. Uchicova, N. Andreeva-Popova, N. Milchev, M. Murdjeva, V. Blagoeva, D. Popov.- Vaginal trichomonal, candidomycotic and *Gardnerella* infections in women of reproductive age

854 B. Kazemi, F. Yasae, M. Bandehpour, N. Seyed, F. Tahvildari, M. Rajabnejad, M. Mansouri, S. Givrad, M.S. Ghazi, F. Doustdar.- Comparison of PCR and microscopic method for detection of *Trichomonas vaginalis* in the urine

SESSION 2: INTESTINAL PARASITISM

Chairs: A.R. Martínez-Fernández (Spain), R. Angles (Bolivia) and J. Gascón (Spain)

Date: Wednesday, July 21, 2004
Time: 17.30-19.30

Location: Room 14 I
Communication EMOP Nos.: 855-859

Free Oral Papers:

- 855 P. Meseguer-García, D. Rodríguez-Calabuig, M.J. Roca-Estellés, F. Sevilla-Chica, L. Alfaro-Ferreres, A. Gómez-Castro.- Autopsy findings in a case of *Strongyloides stercoralis* hyperinfection in the Valencian Community
- 856 A. Nikolic, O. Djurkovic-Djakovic, B. Bobic, I. Klun, J. Grujic.- Intestinal parasite infections in Serbia: what has changed in fourty years?
- 857 A.T.N. Ahmed, R.Z. Shah, H. Mahmud, Q. Rahman, A.N.N. Ahmed.- Effective deworming campaign among school children needs concomitant improvement of community sanitation: experience from community based intervention in rural Bangladesh
- 858 D. Dorostcar Moghaddam, E. Ghadirian, M. Azami.- *Blastocystis hominis* and the evaluation of efficacy of metronidazole and trimethoprim/sulfamethoxazole
- 859 M.V. Domínguez, S. Fernández-Barredo, M.T. Pérez, R. Borrás, M.T. Gómez-Muñoz.- Ribotypes of *Blastocystis hominis* obtained from human and pig hosts in the area of Valencia

SESSION 3: POSTERS ON PARASITES OF MEDICAL IMPORTANCE

Date: Wednesday, July 21, 2004
Time: 8.30-19.30

Location: Grand Hall

Communication EMOP Nos.: 860-875

- 860 V. Domínguez, R. Guna, C. Muñoz, M.T. Gómez-Muñoz, N. de la Muela, R. Borrás.- Genotypes of *Blastocystis hominis* found in the sanitary area of the University Clinical Hospital from Valencia (Spain)
- 861 D. Montero, J.J. Nogal-Ruiz, J.A. Escario, A. Gómez-Barrio, A.R. Martínez-Fernández.- Genetic studies of *Trichomonas vaginalis* isolates by RAPD-PCR
- 862 M. Baniardalani, N. Nourjah, Farnia, M. Taghinejad, A. Chavshin.- Prevalence of *Trichomonas vaginalis* among women attending to a family planning unit of a health care clinic
- 863 H. Ziaei, S. Rashidi, T. Yaghoobi, R. Mohammad-Por.- Hygienic behavioural study of the trichomoniasis patients referring to the health service centers of Sari township in 2001-2002
- 864 J. Ordás, F. Pérez, A. Rodríguez, M. Oña, S. Melón, F.J. Méndez, F. Vázquez.- PCR diagnostic of trichomoniasis: a clinical study
- 865 I. Radonjic, M.A. Dzamic, V. Arsic-Arsenijevic, I. Kranjcic Zec, S. Mitrovic.- Value of culture and PCR in the assessment of *Trichomonas vaginalis* infection
- 866 E. Dopico, L. Calatayud, G. Padrós, E. Grenzner, M. Gomis.- Intestinal parasitic infections in immigrant population: a challenge in Primary Healthcare
- 867 M.A.A Grácio, M.I. Pereira, I. Clemente.- Imported diseases among immigrants during construction of the Alqueva dam (South Portugal)
- 868 M. Avijgan, S.M. Kazem-Husseini-Asl.- Does stool examination always help us to diagnose and manage diarrhea patients?
- 869 V. Alibrandi, L. Castillo, D. Montaner, M. Rodríguez, M.A. de la Parte.- *Blastocystis hominis* and *Endolimax nana* frequency in faecal specimens studied in a clinical private laboratory in Caracas, Venezuela
- 870 S. Gholami, H. Ziaei, R. Mohammad-Por, H. Kianian, M. Sharif, I. Mobedi, F. Gholami, H. Jalali.- Blastocystosis and giardiasis in cattle breeders living in rural areas of Mazandaran province in Iran
- 871 N. Nourjah, M. Baniardalani, A.A. Soheili-Azad, E. Khaleghzadeh, A.A. Chavshin.- Enterobiasis among schoolchildren in the 17th region of Tehran, Iran, and its relationship with risk factors
- 872 A.A. Soheili-Azad, N. Nourjah, M. Baniardalani.- Study of intestinal parasitic infections and their relationships to malnutrition in schoolchildren
- 873 T. Gunduz, M.M. Demirel, T. Inceboz, S.Yegane.- The prevalence of intestinal parasitosis in children with gastrointestinal symptoms in association with socioeconomic conditions
- 874 M. Gozalbo, G. Trueba, M. Fornasini, M.V. Fuentes, M.D. Bagues, J.G. Esteban, S. Mas-Coma.- Coproparasitological survey in schoolchildren from the community of Planchaloma (Province of Cotopaxi, Ecuador)
- 875 M.L. Galván, L. Coronado, Y. Pérez, E.B. Román, A.L. Madriz, L.R. Rodríguez, R. Troyo San Román, R. Bernal.- Biodiversity of parasitic infections in two states of the western region of Mexico

SYMPOSIUM ON PARASITES, PREGNANCY AND CONGENITAL INFECTION

Organiser: Y. Carlier (Belgium)

SESSION 1: MATERNO-FETAL TRANSMISSION OF PARASITES

Chairs: Y. Carlier (Belgium), A.J. Trees (UK) and J. Vercruyse (Belgium)

Date: Wednesday, July 21, 2004

Location: Auditorium

Time: 15.00-17.00

Communication EMOP Nos.: 927-931

Keynote Communications:

927 Y. Carlier, F. Torrico.- Factors involved in the transmission and development of congenital infection with *Trypanosoma cruzi*

928 W. Foulon, J.M. Pinon, P. Ambroise-Thomas.- Epidemiology and management of toxoplasmosis in pregnancy

Free Oral Papers:

929 C. Truyens, E. Hermann, C. Alonso-Vega, P. Rodriguez, A. Berthe, F. Torrico, Y. Carlier.- Congenital transmission of *Trypanosoma cruzi* is associated with maternal enhanced parasitemia and decreased IFN- γ production to parasite antigens

930 M. Virreira, F. Torrico, C. Alonso-Vega, C. Jijena, C. Truyens, Y. Carlier, M. Svoboda.- Investigation of lineages of *Trypanosoma cruzi* detected in Bolivians congenitally infected newborns

931 I. Villena, H. Pelloux, M.H. Bessieres, D. Azjenberg, D. Aubert, H. Fricker-Hidalgo, S. Cassaing, M.L. Dardé.- Interest of *Toxoplasma* biological resource centre in collection and characterization of strains from congenital toxoplasmosis

SESSION 2: CONSEQUENCES OF PARASITIC INFECTIONS ON PREGNANCY

Chairs: B. Losson (Belgium), W. Foulon (Belgium) and C. Menendez (Spain)

Date: Wednesday, July 21, 2004

Location: Room 14 F

Time: 17.30-19.30

Communication EMOP Nos.: 932-937

Keynote Communications:

932 C. Menendez.- Malaria in pregnancy: consequences for the mother and the newborn

933 A.J. Trees, D.J.L. Williams.- Major implications of acute and chronic transplacental protozoal infections in veterinary medicine

934 J. Vercruyse.- Consequences of helminth infections during pregnancy and lactation

Free Oral Papers:

935 L. Brutus, D. Schneider, S. Mollinedo, J.C. Avila, J.R. Postigo, J.A. Santalla, V. Diaz, R.E. Mollinedo.- Effects of *Plasmodium vivax* malaria in pregnancy in Bolivia (South America)

936 F. De Meerschman, D. Cassart, C. Focant, J. Detry, C. Rettigner, B. Losson.- Clinical, pathological and diagnostic aspects of congenital neosporosis in a series of naturally infected calves

937 P. Arasu, T. Freitas, S. Trivedi, C. Cowan.- TGF- β signalling in pregnancy-induced reactivation and transmammary transmission of *Ancylostoma* hookworm infection

SESSION 3: FINAL ROUND TABLE FOR GENERAL ANALYSIS

Chairs: Y. Carlier (Belgium), W. Foulon (Belgium), A.J. Trees (UK) and C. Menendez (Spain)

Date: Thursday, July 22, 2004

Location: Room 14 F

Time: 15.00-17.00

Communication EMOP Nos.: ---

SESSION 4: POSTERS ON PARASITES, PREGNANCY AND CONGENITAL INFECTION

Date: Wednesday, July 21, 2004

Location: Grand Hall

Time: 8.30-19.30

Communication EMOP Nos.: 938-939

938 K. Pastusiak, W. Cabaj, J. Bien, K. Sloniewski, J. Wojdan, B. Moskwa.- The first evidence of *Neospora caninum* DNA in the colostrum of cows diagnosed as seropositive

939 K. Reiterová, D. Halásová, O. Tomasovicová, P. Dubinsky.- Influence of parasitic infections during pregnancy on reproduction of mice populations

SYMPOSIUM ON OPPORTUNISTIC AND EMERGING PARASITOSEs AND MYCOSES

Organisers: T. Graczyk (USA) and P. Ambroise-Thomas (France)

SESSION 1: OPPORTUNISTIC AND EMERGING PARASITOSEs

Chairs: T. Graczyk (USA), R.H. Gilman (USA) and M.S. Abrahamsen (USA)

Date: Tuesday, July 20, 2004
Time: 17.30-19.30

Location: Auditorium
Communication EMOP Nos.: 940-944

Keynote Communications:

- 940 T.K. Graczyk.- *Cryptosporidium* in the environment
941 R.H. Gilman, H.H. Garcia, A. Gonzalez, V. Tsang.- New insights into cysticercosis
941' Z. Kucerova: Epidemiology of microsporidiosis in man

Free Oral Papers:

- 942 M.S. Abrahamsen, J.E. Abrahante, S. Enomoto, C.A. Lancto, G. Zhu, T. Templeton.- The complete genome sequence of the apicomplexan *Cryptosporidium parvum*
943 T. Ngouanesavanh, K. Guyot, Y. Le Fichoux, C. Chartier, A.L. Bañuls, C. Sarfati, R.I. Verdier, E. Dei-Cas.- Multilocus genotyping for genetic analysis of *Cryptosporidium* spp.
944 U.M. Ryan, C. Bath, C. Read, A. Elliott, B. Besier.- Molecular epidemiology of *Cryptosporidium* and *Giardia* in sheep

SESSION 2: OPPORTUNISTIC AND EMERGING MYCOSES

Chairs: R. Sentandreu (Spain), C. Fradin (Germany) and Z. Kucerova (USA)

Date: Wednesday, July 21, 2004
Time: 8.30-10.30

Location: Room 16 F
Communication EMOP Nos.: 945-949

Keynote Communications:

- 945 R. Sentandreu, L. Castillo, A.I. Martinez, A. Garcerá, E. Valentín.- Role of Pir1 in the construction of *Candida albicans* cell wall and genome-wide analysis of cell wall construction by protoplasts
946 C. Fradin, B. Hube.- Use of microarrays to analyse *Candida albicans* infections

Free Oral Papers:

- 947 E. Fréal, F. Soula, C. Noël, N. Nolard, F. Symoens, E. Dei-Cas, D. Camus, E. Viscogliosi, L. Delhaes.- A phylogeny of fungi based on the manganese superoxide dismutase (MnSOD) gene polymorphism: contribution to the early diagnosis of fungal opportunistic infections
948 M.L. Lobo, L. Xiao, I. Sulaiman, V. Cama, A. Teles, F. Antunes, O. Matos.- Microsporidia detection among Portuguese immunocompromised and immunocompetent patients
949 M.L. Lobo, L. Xiao, V. Cama, A. Teles, N. Magalhães, F. Antunes, O. Matos.- Detection of the human-pathogenic *Enterocytozoon bieneusi*, *Encephalitozoon intestinalis* and *Encephalitozoon hellem* in stools from animals, in Portugal

SESSION 3: POSTERS ON OPPORTUNISTIC AND EMERGING PARASITOSEs AND MYCOSES

Date: Wednesday, July 21, 2004
Time: 8.30-19.30

Location: Grand Hall

Communication EMOP Nos.: 950-999

- 950 R.A. Martínez-Díaz, S. Herrera, F. Ponce-Gordo.- Genetic analyses of *Cryptosporidium* sp. from ostriches and proposal of a new species
951 N. Abreu-Acosta, A. Quispe-Ricalde, P. Foronda-Rodríguez, E. Martínez-Carretero, A. Ortega-Rivas, J. Alcoba-Florez, N. Batista-Cruz, D. Ballart-Sistach, E. Figueruelo-Ojeda, B. Valladares-Hernández.- Genotyping of *Cryptosporidium* spp. from dysenteric patients from Tenerife
952 M.T. Llorente, A. Clavel, M. Varea, J. Sahagún, S. Olivera, M.C. Rubio.- Genetic characterization of *Cryptosporidium* isolates obtained from humans in Aragon (northeastern Spain)
953 F. Leoni, C. Amar, G. Nichols, S. Pedraza-Díaz, J. McLauchlin.- Genetic analysis of *Cryptosporidium* from humans with diarrhoea in England
954 M. Turk, G. Sonmez, H. Dagci, B. Pektas, E.C. Guy, A.Y. Guruz, A. Uner.- Cryptosporidiosis in children in Turkey: genotyping by using Nested PCR-RFLP
955 B. Soba, V. Mioc, A. Vergles Rataj, J. Logar.- The protozoan *Cryptosporidium*, an emerging pathogen in Slovenia
956 M.T. Llorente, A. Clavel, M. Varea, S. Olivera, J. Sahagún.- Seasonality of cryptosporidiosis in Aragon (northeastern Spain)
957 M.T. Llorente, A. Clavel, M. Varea, J. Sahagún, S. Olivera.- *Cryptosporidium felis* infection in an immunocompetent child of Indian origin adopted in Spain
958 F. Leoni, J. McLauchlin, H. Gómez-Couso, M.E. Ares-Mazás.- Characterisation of *Cryptosporidium* species from naturally contaminated bivalve molluscs by heteroduplex mobility assay of the small double stranded RNA (dsRNA) element and fragment analysis of microsatellite regions
959 M. Alves, V. Lemos, L. Xiao, L.L. Zhou, V. Cama, M. Barão da Cunha, O. Matos, F. Antunes.- Finding of *Cryptosporidium* spp. in mammals and reptiles at the Lisbon Zoo
960 M. Alves, A.F. Vale, O. Matos, C. Neto, E. Ferreira, M.J. Benoliel, F. Antunes.- Occurrence of *Cryptosporidium* in surface waters in Lisbon, Portugal: preliminary results
961 M. Haro, N. Henriques Gil, I. Andrés, F. Alonso, S. Fenoy, C. del Aguila.- First detection and genotyping of Microsporidia in pigeons
962 M. Haro, N. Henriques-Gil, C. del Aguila, S. Fenoy.- Proliferative dynamics of different *Encephalitozoon hellem* microsporidium strains

- 963 W. Wieloch, M. Sacharczuk, M.I. Bogu, K. Jaszczak.- DNA fingerprinting of *Conidiobolus coronatus* colonies revealing different pathogenicity to *Galleria mellonella* larvae
- 964 J.V. Cañizares, F. Miró, G. Culebras, M. Iranzo, S. Mormeneo.- Characterization of an avirulent *Candida albicans* yeast monomorphic mutant
- 965 J. Cernicka, M. Sojakova, D. Liptajova, M. Borovsky, J. Subik.- The susceptibilities to antifungal agents and drug resistance mechanisms of vaginal yeast isolates
- 966 L. Chomicz, J. Piekarczyk, J. Zebrowska, B. Starosciak, B. Piekarczyk, P. Zawadzki, D. Szubinska.- Periodontal problems and protozoans, bacteriae and fungi in the mouth of patients with congenital diseases
- 967 O. González-Moreno, M. Gracenea, M. Espuña, N. Crespo, J. Rodríguez, J.A. Güell-Oliva.- Prevalence data of cryptosporidiosis in out-patients from Cataluña (Spain)
- 968 H. Gómez-Couso, F. Méndez-Hermida, J.A. Castro-Hermida, A. Pereira-Lorenzo, E. Ares-Mazás.- Report about an outbreak of cryptosporidiosis in a nursery centre of Santiago de Compostela (NW-Spain)
- 969 D. Piergili-Fioretti, M. Diaferia, F. Veronesi.- Human *Neospora caninum* infection: a seroepidemiological study
- 970 F.D. Alonso, C. Peñafiel, M.R. Ruiz de Ybáñez, C. Martínez-Carrasco.- Prevalence of *Cryptosporidium* spp. infection in wild ruminants in the Sierra de Cazorla, Segura y las Villas Natural Park, Spain: preliminary results
- 971 F.D. Carmona-López, M.P. Illescas-Gómez, V. Gómez-García, M. Rodríguez-Osorio.- Prevalence of *Cryptosporidium* infection in goats from farms of Andalucía (Spain): a preliminary study
- 972 O. González-Moreno, M. Gracenea, A. Hernández, A. Pérez.- *Cryptosporidium* sp. in wild chimpanzees (*Pan troglodytes*) from Tanzania
- 973 M.A. Halacheva, I.I. Vitanov, M.P. Gabrachanska.- A study on cryptosporidiosis of ruminant animals (calves, buffalo calves, kids)
- 974 M.D. Navarro, J.A. Navarro, I. Amorós, I. Bernácer, J.L. Alonso.- Detection of *Cryptosporidium* and *Giardia* in wastewater treatment plants in Spain by single and nested PCR
- 975 R. Reinoso, E. Bécares, E. De Luis-Calabuig.- Removal of *Giardia* and *Cryptosporidium* oocysts in a waste stabilization pond system in restrictive conditions
- 976 F. Méndez-Hermida, J.A. Castro-Hermida, E. Ares-Mazás, K. McGuigan.- Effect of SODIS and SPC-DIS of drinking water on the infectivity of *Cryptosporidium parvum* oocysts
- 977 V. Lemos, T. Graczyk, O. Matos, F. Antunes.- Identification and determination of the viability of intestinal parasites in human faeces and water samples by fluorescence *in situ* hybridization (FISH)
- 978 J. Quílez, F. López-Bernad, C. Sánchez-Acedo, E. del Cacho.- Comparative efficacy evaluation of imidocarb and toltrazuril against *Cryptosporidium parvum* infection in a neonatal mouse model
- 979 J. Quílez, C. Sánchez-Acedo, C. Avendaño, E. del Cacho, F. López-Bernad, Y. Vergara.- Efficacy of the disinfectant Ox-Agua® to inactivate *Cryptosporidium parvum* oocysts
- 980 J. Quílez, C. Sánchez-Acedo, C. Avendaño, F. López-Bernad, E. del Cacho, Y. Vergara.- Efficacy of the disinfectant Ox-Virin® to inactivate *Cryptosporidium parvum* oocysts
- 981 P. Lawton, C. Hejl, R. Mancassola, M. Naciri, A.F. Pétauy, M.E. Sarciron.- Effects of purine nucleosides and analogues on *Cryptosporidium parvum* in vitro
- 982 C. Rueda, M.R. Bernardo, S. Fenoy, C. del Aguila.- Looking for alternative therapies against cryptosporidiosis
- 983 J.A. Castro-Hermida, I. Pors, F. Méndez-Hermida, E. Ares-Mazás, C. Chartier.- Efficacy of two disinfectants used in farm against *Cryptosporidium parvum* oocysts
- 984 A. Brito, E. Bruzual, L. Arcay, M.A. de la Parte.- Influence of immunosuppressing drugs on the life cycle of *Cryptosporidium* and its dissemination in different tissues
- 985 G. Pérez-Cordón, C. Barragán, C. Mascaró, C. Marín, I. Rodríguez-González, M. Sánchez-Moreno, M.J. Rosales.- Improvements in the *in vitro* culture of *Cryptosporidium parvum* on cells
- 986 C. Barragán, G. Pérez-Cordón, C. Marín, I. Rodríguez-González, C. Mascaró, M.J. Rosales.- *In vitro* assays of pyrimidine derivatives against *Cryptosporidium parvum*
- 987 C. del Aguila, F. Izquierdo, S. Fenoy.- Immunochemical characterization of anti-*Encephalitozoon intestinalis* monoclonal antibodies for use in clinical diagnosis
- 988 M.R. Bernardo, S. Fenoy, C. del Aguila.- *Encephalitozoon cuniculi*: experimental infection in suckling BalB/c mice
- 989 M.R. Bernardo, C. Rueda, S. Fenoy, C. del Aguila.- Natural medicine as a source of new treatments against microsporidiosis
- 990 C. Costache, M. Junie.- Opportunistic mycotic infections in patients with bronhopulmonar neoplasm
- 991 I. Moradi, S. Shadzi.- Evaluation of a MS-258 solution formulation for the treatment of dermatophytosis
- 992 T. Shokohi, M. Shamsizadeh, Z. Soojodian.- Clinical efficacy of 1% terbinafine cream (Lamizil)® in comparison to 2% miconazole cream in patients with pityriasis versicolor
- 993 L. Huldén.- Are oligophagous Laboulbeniales species actually spatially monophagous species?
- 994 R. Aghili, T. Shokohi, M. Hedayati, M. Nazeri.- Hollow trees can be a source of spreading of medical important fungi
- 995 E. Kedra, M.I. Bogu.- Metabolites from parasitic fungi *Conidiobolus coronatus* induce malformation of insect haemocytes *in vivo* and *in vitro*
- 996 G. Culebras, F. Miró, M. Iranzo, H. Rico, S. Mormeneo.- Transglutaminase activity, a novel antifungal target in *Candida albican*
- 997 P. Roig, E. Villamón, M.L. Gil, D. Gozalbo.- Toll-like receptor 2 mediates prostaglandin E₂ production in murine peritoneal macrophages and splenocytes in response to *Candida albicans*
- 998 E. Villamón, D. Gozalbo, P. Roig, C. Murciano, J.E. O'Connor, M.L. Gil.- MyD88 is required for murine resistance to *Candida albicans* and is critically involved in *Candida*-induced production of cytokines

SYMPOSIUM ON AIDS AND PARASITIC INFECTION

Chairs: F. Antunes (Portugal) and B. Cimerman (Brazil)

SESSION 1: AIDS AND PARASITIC INFECTION

Chairs: F. Antunes (Portugal), B. Cimerman (Brazil) and A. Muro (Spain)

Date: Thursday, July 22, 2004

Location: Room 15 F

Time: 15.00-17.00

Communication EMOP Nos.: 1000-1004

Keynote Communications:

- 1000 F. Antunes.- Implications of HAART in the epidemiology and health care of AIDS associated parasitic infections in Africa
1001 E. Gotuzzo, A. Terashima, M. Canales, R. Cairampoma, K. Verdonck.- Impact of HTLV-I in Parasitology

Free Oral Papers:

- 1002 L. Pocaterra, G. Certad, A. Arenas-Pinto, G. Ferrara, J. Castro, A. Bello, L. Núñez.- Long term study of cryptosporidiosis in Venezuelan adults infected with human immunodeficiency virus
1003 G. Certad, L. Nuñez, L. Pocaterra, A. Arenas, G. Ferrara, A. Hernán, R. Cairaipoma, E. Gotuzzo.- Evaluation of strongyloidiasis association with HTLV-I co-infection in HIV patients
1004 E.B. Kia, A.R. Meamar, M. Mahmoudi, M. Mohraz, A. Jafari-Mehr, M. Rezaian, M.R. Zali.- *Strongyloides stercoralis* hyperinfection syndrome in HIV⁺/AIDS patients and in immunocompetent hosts in Iran

SESSION 2: POSTERS ON AIDS AND PARASITIC INFECTION

Date: Wednesday, July 21, 2004

Location: Grand Hall

Time: 8.30-19.30

Communication EMOP Nos.: 1005-1009

- 1005 M.A. de la Parte, A. Brito, Y. Roldán, E. Bruzual, L. Arcay.- *Cryptosporidium* frequency in adult patients with Acquired Immunodeficiency Syndrome (AIDS) and diarrhea
1006 M. Turk, F. Kaptan, A. Ayaydin, S. Ural, M. Turker.- The first Turkish AIDS patient with persistent diarrhea caused by *Isoospora belli* unresponsive to trimetoprim- sulfomethaxazole and the outcome of the patient treated with pyrimethamine
1007 L. Arcay, E. Báez de Borges, E. Bruzual, M.A. de la Parte, A. Brito.- Microsporidia (Protozoa, Phylum Microspora): opportunistic enteropathogens related with AIDS
1008 G. Ferrara, J. Figuera, G. Certad, L. Pocaterra, A. Arenas, L. Núñez.- Evaluation of different methods for copro-parasitological diagnosis in HIV infected patients
1009 R. Kurdova, T. Marinova, D. Jordanova, M. Ivanova, N. Tzvetkova, I. Rainova.- Opportunistic parasitic diseases associated with HIV infection in Bulgaria
-

MONOGRAPHIC SESSION RESEARCH ON ANTIPARASITIC COMPOUNDS

Chairs: A.S. Bessonov (Russia) and F.A. Rojo-Vázquez (Spain)

SESSION 1: POSTERS ON RESEARCH ON ANTIPARASITIC COMPOUNDS

Date: Monday, July 19, 2004 Location: Grand Hall

Time: 12.30-18.30

Communication EMOP Nos.: 1288-1304

- 1288 A. Plaza, A.R. Martínez-Fernández, J.J. Nogal, E. del Olmo, A. San Feliciano, B. Vicente, C. Vieira, A. Muro.- Synthetic immunomodulators: potential use of aliphatic aminoalcohols and diamines in parasitic vaccines
1289 M. Bailén, R.A. Martínez-Díaz, O.C. Saenz, A. Guadaño, A. González-Coloma, L. Hutter, J.J. Hoffman.- In vitro activity assays of natural compounds and derivatives from several chemical classes (terpenes, saponins quassinoids and triterpenes) on *Leishmania infantum* and *Trypanosoma cruzi*

- 1290 C. Vega, M. Rolón, D. Montero, J.J. Nogal-Ruiz, J.A. Escario, C. Ochoa-Puentes, A. Romero, D. Amado-Torres, V. Kouznetsov, A. Gómez-Barrio.- Antiprotozoan *in vitro* activity of new indeno [2,1-c] quinoline and diamine N,N-dihetaryl derivatives
- 1291 M. Mateo, A. Matute, R. Calonge, G. Miró.- Comparison of the efficacy of mebendazole, fenbendazole and a drug combination of febantel, pyrantel and praziquantel against natural infections with canine intestinal parasites
- 1292 M. Rolón, C. Vega, D. Montero, J.J. Nogal-Ruiz, J.A. Escario, J. Coro, R. Pérez, M. Suárez, A. Gómez-Barrio.- Tripanocidal and trichomonacidal *in vitro* activity of new thiadiazin-carboxylic acid derivatives
- 1293 M. Rolón, C. Vega, A. Gómez-Barrio, C. Ochoa, V.J. Arán, A.R. Martínez-Fernández.- In vitro antitrypanosomal activity of heterocyclic compounds: indole, indazole and quinoxaline derivatives
- 1294 A. Meneses, D. Montero, J.A. Escario, J.J. Nogal-Ruiz, C. Ochoa, V.J. Arán, A.R. Martínez-Fernández.- Trichomonocidal activity of some heterocyclic head-series compounds (indole, indazole, and quinoxaline derivatives)
- 1295 K. Sardarian, H. Taherkhani.- A study about pathogenicity of *Blastocystis hominis* after metronidazole treatment
- 1296 M.M. Nogal-Ruiz, R.A. Martínez-Díaz, J.J. Nogal-Ruiz, A. González-Coloma, A. Guadaño, D. Cortés, A. Gómez-Barrio, A.R. Martínez-Fernández.- Antiprotozoal activity of some potential inhibitors of electron transport (acetogenins)
- 1297 D. Montero, C. Vega, M. Rolón, J.J. Nogal-Ruiz, A.G. Fuentes-García, P. Simá-Polanco, L.M. Peña-Rodríguez, A.R. Martínez-Fernández.- Evaluation of the biological activity of crude extracts from plants used in Yucatecan Traditional Medicine: cytotoxic, trypanocidal, trichomonacidal and nematocidal activities
- 1298 O.C. Sáenz, R.A. Martínez-Díaz, M. Bailén, A. Guadaño, N. Mohamed, A. González-Coloma, L. Ruiz-Mesía.- In vitro activity assays of traditional medicinal plant extracts from the Peruvian rain forest on *Leishmania infantum* and *Trypanosoma cruzi*
- 1299 H. Ziaei, M. Azadbakht, F. Abdollahi, B. Shabankhani.- Effect of essential oils of *Artemisia aucheri* Boiss, *Zataria multiflora* Boiss, and *Myrtus communis* L. on *Trichomonas vaginalis*
- 1300 C. Vega, M. Rolón, A.R. Martínez, J.A. Escario, A. Gómez-Barrio.- A new pharmacological screening assay with *Trypanosoma cruzi* epimastigotes expressing β -galactosidase
- 1301 I.A. Arkhipov, S.V. Rusakov, N.I. Koshevarov, A.S. Bessonov, M.B. Musaev.- Anthelmintic efficacy and influence of platenol on the reproductive system of *Paramphistomum cervi*
- 1302 M.A. Álvarez-Sánchez, J. Pérez-García, M.A. Cruz-Rojo, F.A. Rojo-Vázquez.- The larval feeding inhibition assay (LFIA) as a new tool for the diagnosis of nematode anthelmintic resistance
- 1303 M.A. Álvarez-Sánchez, J. Pérez-García, M.A. Cruz-Rojo, F.A. Rojo-Vázquez.- Real time PCR for the diagnosis of benzimidazole resistance in trichostrongylids of sheep
- 1304 M.A. Álvarez-Sánchez, J. Pérez-García, M.A. Cruz-Rojo, F.A. Rojo-Vázquez.- Anthelmintic resistance in small ruminant flocks in NW of Spain

MONOGRAPHIC SESSION ON INFECTIOUS DISEASES

Chairs: J.R. McQuiston (USA) and T. McLellan (South Africa)

SESSION 1: POSTERS ON MOLECULAR BIOLOGY OF INFECTIOUS DISEASES

Date: Monday, July 19, 2004 Location: Grand Hall

Time: 12.30-18.30

Communication EMOP Nos.: 1329-1341

- 1329 S. Banerjee, A. Nandyala, P. Ravi Prasad, S. E. Hasnain.- Isoforms of an important energy cycle enzyme of *Mycobacterium tuberculosis* with distinct biochemical properties display strong B-cell response
- 1330 J.R. McQuiston, S. Herrera-Leon, R. Parrenas, E. Chaitkin, J.D. Doyle, J. Logsdon, R.V. Tauxe, P.I. Fields.- Molecular identification of *Salmonella* species, subspecies and flagellar antigens
- 1331 N. Cerca, S. Martins, F. Cerca, G. Pier, R. Oliveira, J. Azeredo.- Resistance of coagulase-negative Staphylococci biofilms to antibiotics
- 1332 A.C. Bumbaugh, A.D. Sails, B. Swaminathan, P.I. Fields.- DNA based subtyping of *Campylobacter jejuni*: a comparison of multilocus sequence typing (MLST) schemes and evaluation of variable loci
- 1333 O. Lozano, L.E. Flores, C. Romero, A.R. Rebaza, P.S. Ramírez, D.E. Alvarado, R.H. García-de-la-Guarda.- Study of *Bartonella bacilliformis* recombinant flagellin as an immunogen
- 1334 M. Macêdo, S. Carpenter, J.A. Richt, J.L. Oaks, R.H. Mealey, T.C. McGuire, K.S. Dorman.- Local dynamics of virus-host interactions as a marker of disease progression: analysis of clinical data in EIAV infected horses
- 1335 T. McLellan, L. Skhosana, R. Ramdin, E. Mohlapamafsi, M. Bartlett, M. Moonsamy.- Population variation in genes that interact with HIV in black South Africans
- 1336 M. Coscollá, M.J. Gosalbes, V. Catalán, F. González-Candelas.- Molecular population genetics analysis of *Legionella pneumophila* serogroup 1 in the Comunidad Valenciana

- 1337 M.A. Rodríguez-Pérez, M. Almora-Hinojosa, C. Lizarazo-Ortega.- Rotavirus detection in drinking water in a Mexico-USA border city
- 1338 B. Roche, M. Choisy, Y. Dorleans, N.P. Chau, A. Flahaut, A.J. Valleron, J.F. Guegan.- Meta-population dynamics of chickenpox scrambled by zoster
- 1339 J.M. Egido, J.L. Gomes Dantas.- Hepatitis viral infection in Acre State, Brazil
- 1340 M. Peñaranda, M. Villalonga, M.A. Ribas, A. Ramirez, T. Serra, S. Riera, J. Murillas, C. Villalonga, J. Perez.- Study of immigrants with tuberculosis in a tertiary hospital over a five year period
- 1341 T. M. Hambuch, S. Handley, R.L. Regnery.- An emerging or covert disease? Genetic inferences from two populations of *Bartonella bacilliformis*
-