

SESSION 6 - Genetics, taxonomy and omics. Tools and reverse genetics

Chairman: Alexis Mendoza

Co-chairman: Vicente Larraga

C0161	<p>THE DYNAMICS OF LATERAL GENE TRANSFER IN GENUS LEISHMANIA <i>Elisabet Vikeved; Anders Backlund; Cecilia Alsmark;</i></p>
C0192	<p>MULTIPLEXED SPLICED-LEADER SEQUENCING: A HIGH-THROUGHPUT, SELECTIVE METHOD FOR RNA-SEQ OF LEISHMANIA <i>Bart Cuypers parasitology; Malgorzata A. Domagalska; Géraldine De Muylder; Pieter Meysman; Manu Vanaerschot; Hideo Imamura; Thomas-Wolf Verdonckt; Peter J. Myler; Gowthaman Ramasamy; Kris Laukens; Jean-Claude Dujardin;</i></p>
C0276	<p>CRISPR-CAS9-MEDIATED GENOME EDITING IN LEISHMANIA <i>Wenwei Zhang; Patrick Lypaczewski; Greg Matlashewski;</i></p>
C0395	<p>SELF-MATING GENERATES GENOTYPIC AND PHENOTYPIC VARIANTS IN LEISHMANIA <i>Ehud Inbar; Jahangheer Shaik; Jeffrey Brendan; Deborah Dobson; Stephen Beverley; David Sacks;</i></p>
C1637	<p>GENOMIC ANALYSIS OF INTRA-SPECIFIC HYBRIDS AND ANCESTOR-LIKE DONORS AMONG NAT ISOLATES OF LEISHMANIA DONOVANI, AND THE EXPERIMENTAL PRODUCTION OF ABUNDANT HYBRIDS IN TWO SAND FLY SPECIES <i>Matthew Yeo; James Cotton; Jovana Sadlova; Caroline Durrant; Mandy Sanders; Matthew Berriman; Asrat Hailu; David Santos-Mateus Santos-Mateus; Alan Au; Tesfaye Gelanew; Petr Volf; Michael Miles;</i></p>
C1655	<p>ASSEMBLY AND COMPARISON OF THE L. NAIFFI AND L. GUYANENSIS GENOMES ISOLATED FROM DOGS PROVIDES INSIGHTS INTO THE EVOLUTION OF THE VIANNIA SUBGENUS <i>Simone Coughlan; Ali Taylor; Eoghan Feane; Mandy Sanders; Gabriele Schonian; James Cotton; Tim Downing;</i></p>
C1896	<p>GENOME INSTABILITY AND GENETIC DIVERSITY - HOW TO ADAPT IN THE ABSENCE OF SEX IN THE PROTOZOAN PATHOGEN LEISHMANIA DONOVANI <i>Pablo Prieto Barja; Pablo Prieto Barja; Pascale Pescher; Giovanni Bussotti; Frank Dumetz; Hideo Imamura; Darek Kedra; V Chaumeau; Heinz Himmelbauer; M Pages; Yvon Sterkers; Jean Claude Dujardin; Cedric Notredame; Gerald Spaeth;</i></p>
C0295	<p>INCORPORATING DRUG RESISTANCE STUDIES IN THE QUEST FOR NOVEL ANTILEISHMANIAL AGENTS <i>Aya Hefnawy; Juan Cantizani; Imanol Peña; Jean-Claude Dujardin; Geraldine de Muylder; Julio Martin;</i></p>

SESSION 7 - Drug development: conventional and alternative. Clinical and experimental therapy in cutaneous and visceral leishmaniasis

Chairman: Basilio Valladares

Co-chairman: Hechmi Louzir

C0200	<p>DETC-BASED BACTERIAL CELLULOSE BIO-CURATIVES FOR TOPICAL TREATMENT OF CUTANEOUS LEISHMANIASIS CAUSED BY L. BRAZILIENSIS</p> <p><i>Fabiana S. Celes; Eliane Trovattii; Ricardo Khouri; Johan Van Weyenbergh; Sidney J. L. Ribeiro; Valeria M. Borges; Paulo Machado; Edgar M. Carvalho; Hernane S. Barud; Camila I. De Oliveira;</i></p>
C0305	<p>URSOLIC ACID DISPLAYS LEISHMANICIDAL EFFECT AND MODULATES IMMUNE RESPONSE IN EXPERIMENTAL VISCERAL LEISHMANIASIS</p> <p><i>Luiz Felipe Passero Domingues; Jéssica Adriana Jesus; Eduardo Seiji Yamamoto; Gabriela Santos-Gomes; João G. Lago; Márcia Laurenti;</i></p>
C1274	<p>IN VITRO ACTIVITY OF 1H-PHENALEN-1ONE DERIVATIVES AGAINST LEISHMANIA SPP AND ITS MECHANISMS OF CELL DEATH</p> <p><i>Maria Reyes Batlle; Atteneri Lopez Arencibia; Monica Blanco Freijo; Grant McNaughton Smith; Ines Sifaoui; Carolina Wagner; Jacob Lorenzo Morales; Teresa Abad Grillo; Jose E Piñero;</i></p>
C0864	<p>IN VITRO AND IN VIVO ANTILEISHMANIAL ACTIVITY OF ALYCYBACE AND POTENTIAL UTILITY IN THE TREATMENT OF UNCOMPLICATED CUTANEOUS LEISHMANIASIS</p> <p><i>Sara M. Robledo Restrepo; Margarita Arboleda Naranjo; Juliana Quintero Robledo; Adriana M. Restrepo Agudelo;</i></p>
C1139	<p>EVALUATION OF HISTOPATHOLOGICAL CHANGES AND THERAPEUTIC EFFICACY IN MICE INFECTED WITH LEISHMANIA INFANTUM TREATED WITH A MIXED FORMULATION OF CONVENTIONAL AND PEGYLATED LIPOSOMES CONTAINING MEGLUMINE ANTIMONIATE (GLUCANTIMEÆ)</p> <p><i>Levi Eduardo Reis Soares; Henrique Ker Gama; Jamille Mirelle Cardoso de Oliveira; Fernando Augusto Mathias Siqueira; Narjara Sacramento Alcântara; Rory Cristiane Brito Fortes de; Luísa Helena de Melo Perin; Guilherme Ramos Santos; Frédéric Jean Frézard Georges; Bruno Roatt Mendes; Alexandre Reis Babosa;</i></p>
C1309	<p>IMMUNOTHERAPY BY USE OF PCDNA ENCODING IP-10 IN BALB/C MICE INFECTED WITH L. MAJOR</p> <p><i>Hossein Montakhabyegane; Zahra Abdolsamadi; Farnaz Zahedifard; Yasaman Taslimi; Alireza Badirzadeh; Fatemeh Zalli; Sima Habibzadeh; Negar Seyed; Tahereh Taheri; Mohammad Taghikhani; Sima Rafati;</i></p>
C1687	<p>ORAL ADMINISTRATION OF 18-METHOXYCORONARIDINE (18-MC) SHOWED TO BE EFFICIENT AGAINST EXPERIMENTAL CUTANEOUS LEISHMANIASIS DUE TO LEISHMANIA (L.) AMAZONENSIS IN THE MONKEY CHLOROCEBUS AETHIOPS (PRIMATES: CEBIDAE)</p> <p><i>Jan Carlo Delorenzi Delorenzi; Fernando Silveira Tobias; Iliane Carneiro; Tahira Melo Souza; Marliane Campos;</i></p>

C1694

TRANSLATIONAL PHARMACOKINETIC-PHARMACODYNAMIC MODELING FRAMEWORK TO ASSESS THE PREDICTIVE PERFORMANCE OF DIFFERENT PRECLINICAL VISCERAL LEISHMANIASIS ANIMAL MODELS

Thomas Dorlo; Louis Maes; Mats Karlsson; Stéphanie Braillard; Charles Mowbray;

C0622

PHARMACOKINETICS OF SIMULTANEOUSLY ADMINISTERED ANTILEISHMANIAL AND ANTIRETROVIRAL DRUGS IN HIV/VL CO-INFECTED PATIENTS IN ETHIOPIA

A.E. Kip S. Blesson; F. Alves; P. Menza; B. Mengesha; R. Kimutai; J.H.M. Schellens; J.H. Beijnen; M. Wasunna; A. Hailu; E. Diro; T.P.C. Dorlo;

SESSION 8 - Host-parasite cellular and molecular interactions

Chairman: Lynn Soong

Co-chairman: Manuel Segovia

C0296	VESICLE SECRETION FROM THE LEISHMANIA FLAGELLUM AS A POTENTIAL MECHANISM OF VIRULENCE FACTOR DELIVERY <i>Laura Makin; Eva Gluenz; Sally Cowley;</i>
C0510	THE D2 SUBUNIT OF MACROPHAGE VACUOLAR ATPASES CONTROLS THE BIOGENESIS OF LARGE LEISHMANIA AMAZONENSIS PARASITOPHOUS VACUOLES THROUGH REGULATION OF CHOLESTEROL EFFLUX <i>Carina Carraro Pessoa; Luiza de Campos Reis; Erica Valadares de Castro Levatti; Vanessa Gonçalves Pereira; Joyce Umbelino da Silva Yamamoto; Eduardo Milton Ramos Sanchez; Vânia D Almeida; Anita Hilda Straus; Hiro Goto; Renato Arruda Mortara; Fernando Real;</i>
C0700	THE ROLE OF ABCG1 IN THE STEROL COMPOSITION AND IN THE SUSCEPTIBILITY TO AZOLES IN LEISHMANIA AMAZONENSIS <i>Thaís Martins Pereira; Rubens Monte Neto; Marilene Canto Cavalheiro; Marc Ouellette; Eduardo Caio Torres Santos; Valter Andrade Neto;</i>
C0825	IDENTIFICATION OF MICRORNA-21 AS A BIOMARKER IN LIVE ATTENUATED LEISHMANIA VACCINE INDUCED PROTECTIVE IMMUNITY <i>Parna Bhattacharya; Nevien Ismail; Amit Kaul; Hira Nakhasi;</i>
C0829	CELL CONTACT-DEPENDENT AND SOLUBLE FACTORS OF INFECTED MONOCYTES ARE REQUIRED TO ACTIVATE HUMAN NATURAL KILLER CELLS BY LEISHMANIA PARASITES <i>Schleicher Ulrike; Helena Meflinger; Heidi Sebald; Lukas Heger; Diana Dudziak; Christian Bogdan;</i>
C0830	GENETIC BACKGROUND SHIFTS MIRNA PROFILE OF LEISHMANIA AMAZONENSIS INFECTED MACROPHAGES AND ADJUSTS NO/POLYAMINES PRODUCTION <i>Sandra Marcia Muxel; Stephanie Maia Acuña; Ricardo Andrade Zampieri; Lucile M. Floeter-Winter;</i>
C1014	SNARES IMPORTANCE IN LEISHMANIA COMMUNAL AND INDIVIDUAL PV FORMATION <i>Séguin Olivier; Descoteaux Albert;</i>
C1454	IL-4-PRODUCING B CELLS REGULATE T HELPER CELL DICHOTOMY DURING CUTANEOUS LEISHMANIASIS IN BALB/C MICE <i>Ramona Hurdoyal; Melanie Revaz-Breton; Suraj Prakash Parihar; Melissa Govender; Frank Brombacher;</i>

SESSION 9 Drug development: conventional and alternative. Clinical and experimental therapy in cutaneous and visceral leishmaniasis

Chairman: Stephen Robinson

Co-chairman: Jose Maria Pérez-Victoria

C0166	<p>MIRNA MEDIATED NEGATIVE REGULATION OF MACROPHAGE SURFACE RECEPTOR LEADING LEISHMANIA PARASITIC INHIBITION: A THERAPEUTIC APPROACH AGAINST VISCERAL LEISHMANIASIS INFECTION</p> <p><i>Rajan Kumar Pandey; Vijay Kumar Prajapati;</i></p>
C0475	<p>IDENTIFICATION OF RESISTANCE MARKERS FOR DRUG LEADS</p> <p><i>Julia Eick; Eugenia Bifeld; Theodora Calogeropoulou; Stephan Lorenzen; Joachim Clos;</i></p>
C1064	<p>THE POTENT ITK/BTK INHIBITOR IBRUTINIB PROMOTES PROTECTIVE IMMUNITY AGAINST L. DONOVANI AND IS EFFECTIVE IN TREATMENT OF VISCERAL LEISHMANIASIS (VL)</p> <p><i>Sanjay Varikutti; Noushin Saljoughian; Cesar Terrazas; Rachel Sperling; Pablo Alarcon; Abhay Satoskar;</i></p>
C1233	<p>NANOSYSTEMS FORMED BY AMPHIPHILIC ANTIMONY COMPLEXES AS CARRIERS OF THE LEISHMANICIDAL DRUG MILTEFOSINE</p> <p><i>Virgínia Carregal Mendes; Sebastião Ferreira; Larissa Carvalho; Cynthia Demicheli; Luis Rivas Ricardo Fujiwara; Frédéric Frézard;</i></p>
C1261	<p>NANOSYSTEMS DESIGNED FROM AMPHIPHILIC COMPLEXES OF ANTIMONY(V) INCORPORATING AMPHOTERICIN B FOR THE ORAL TREATMENT OF VISCERAL LEISHMANIASIS</p> <p><i>Arshad Islam; Juliane Souza Lanza; Flaviana Ribeiro Fernandes; Delia Chaves Moreira dos Santos ; Gisele Abreu; Lucas Ferreira; Maria Norma Melo; Cynthia Demicheli; Frédéric Frézard;</i></p>
C1379	<p>NANOFORMULATIONS OF TRIFLURALIN ANALOGUES</p> <p><i>Maria Eugenia Cruz; Manuela Carvalheiro; M. Manuela Gaspar; Rui M. Lopes; M. Alexandra Esteves; Antonio Jiménez-Ruiz; António Almeida;</i></p>
C1380	<p>AMPLIFYING THE ANTILEISHMANIAL POTENTIAL OF ARTEMISININ IN NANO AND NANO LIPOSOMAL FORM</p> <p><i>Muzamil Want; Mohammad Islamuddin; Garima Chouhan; Hani Ozbak; Hassan Hemeg; Farhat Afrin;</i></p>
C1413	<p>ENHANCED ANTI-LEISHMANIAL ACTIVITY OF CARBON NANOTUBE BASED MILTEFOSINE FORMULATION</p> <p><i>Rebecca Byler; Diane McMahon-Pratt; Tarek Fahmy; Lisa Pfefferle;</i></p>
C0456	<p>DDD853651, A PRE-CLINICAL CANDIDATE FOR VISCERAL LEISHMANIASIS, ACTS THROUGH INHIBITION OF CYCLIN-DEPENDENT KINASE 12</p> <p><i>Susan Wyllie;</i></p>

SESSION 11 Diagnostic methodology in practice and under development.

Biomarkers in leishmaniasis

Chairman: Ana Margarita Montalvo

Co-chairman: Gabriela Delgado

C0536	DISSECTING THE IN VITRO DRUG SUSCEPTIBILITY ASSESSMENT OF CLINICAL ISOLATES: WHICH CELL TYPE BEST TO USE? <i>Hendrickx Sarah; Van den Kerkhof Magali; Caljon Guy ; Maes Louis;</i>
C1079	FIELD SAMPLING AT ENDEMIC VILLAGES AND MOLECULAR DIAGNOSIS AT DISTANT RESEARCH CENTERS: A COUPLED AND ARTICULATED STRATEGY FOR MOLECULAR DIAGNOSIS AND STRAIN IDENTIFICATION OF CAUSATIVE AGENTS IN SUSPECTED CUTANEOUS LEISHMANIASIS LESIONS IN RURAL CITIES FROM PERU AND BOLIVIA <i>Braulio Mark Valencia Arroyo; Lineth Garcia; Ernesto Rojas; Milena Alba; Nair Montaña; Cecilia Angulo; Aleida Verduguez; Ana Margarita Montalvo; Jorge Fraga; Jorge Arevalo; Gert Van der Auwera; Alejandro Llanos-Cuentas; Andrea K Boggild; Vanessa Adai;</i>
C0181	THERAPEUTIC ROLE OF CHOLESTEROL IN EXPERIMENTAL VISCERAL LEISHMANIASIS <i>Syamal Roy;</i>
C1393	POINT OF CARE DNA ASSAYS FOR DIAGNOSIS OF CUTANEOUS LEISHMANIASIS IN TUNISIA AND IN THE OLD WORLD <i>Yusr Saadi; Ahmed Chakroun; Ramzi Lahmadi; Meherzia Ben Fadhel; Alya Yacoub; Akila Fathallah Mili; Moncef Ben Said; David Piquemal; Ikram Guizani;</i>
C1533	SLA-CELL PROLIFERATION TEST USEFUL ON MANAGEMENT OF VISCERAL LEISHMANIASIS PATIENTS UNDER IMMUNOSUPPRESSOR TREATMENTS <i>Belén Matía; Eugenia Carrillo; Juan San Martín López; Laura Botana; Alicia Castro; Laura Fernández; Jesús García-Martínez; Ana Ibarra-Meneses; Luis Horrillo; Carmen Sánchez; Carmen Chicharro; Javier Nieto; Sheila Ortega; Jose Manuel Ruiz Giardin; Javier Moreno</i>
C0153	LEISHMANIA HASP AND SHERP GENES ARE REQUIRED FOR IN VIVO DIFFERENTIATION, PARASITE TRANSMISSION AND VIRULENCE ATTENUATION IN THE HOST <i>Johannes Doehl; Jovana Sádlová; Hamide Aslan; Katerina Pruzinová; Sonia Metangmo; Jan Votýpka; Shaden Kamhawj; Deborah Smith;</i>

SESSION 10 Host-parasite cellular and molecular interactions**Chairman: Pascale Kropf****Co-chairman: Louis Maes**

C0114	MALNUTRITION AND SUSCEPTIBILITY TO VISCERAL LEISHMANIASIS <i>Yegnasew Teferi; Emebet Adem; Mulusew Getahun; Fitsumbirhan Tagebe Amare Kiflie; Asrat Hailu; John Raynes; Bewketu Mengesha; Tdesse Awoke Ayele; Ziv Shkedy; Muluaem Lemma; Ermias Diro; Frederic Toulza; Manuel Modolell; Markus Munder; Ingrid Müller; Pascale Kropf;</i>
C0706	L. MEXICANA AMASTIGOTES SURVIVE AND REPLICATE WITHIN NEUTROPHILS <i>Benjamin Hurrell; Manon Beaumann; Sandrina Heyde; Andreas Müller; Fabienne Tacchini-Cottier;</i>
C0917	KUPFFER CELLS AND BLOOD DERIVED MACROPHAGES RESPOND DIFFERENTLY TO L. INFANTUM PARASITES <i>Maria Armanda Viana Rodrigues; David Santos-Mateus; Graça Alexandre-Pires; Ana Valério-Bolas; Mariana Rafael-Fernandes; Maria Aires Pereira; Jéssica de Jesus; Raquel Alves-Azevedo; Sara Lopes-Ventura; Marcos Santos; Isabel Pereira da Fonseca; Gabriela Santos-Gomes;</i>
C1069	A MULTI-DIMENSIONAL ANALYSIS OF MICRORNA-MEDIATED REGULATION IN LEISHMANIA-INFECTED HUMAN DENDRITIC CELLS <i>Nicholas Geraci; Mary Ann McDowell;</i>
C1230	HLA-DR AS A GENETIC DETERMINANT OF SUSCEPTIBILITY TOWARDS VISCERAL LEISHMANIASIS <i>Bhawana Singh; Michaela Fakiola; Medhavi Sudarshan; Joyce Oommen; Toolika Singh; Siddharth Sankar Singh; Jenefer Blackwell; Shyam Sundar;</i>
C1591	WHOLE GENOME TRANSCRIPTION PROFILING OF THE LEISHMANIA TROPICA INFECTED LESIONS FROM CUTANEOUS LEISHMANIASIS PATIENTS <i>Nasrin Masoudzadeh Vayghan; Amir Mizbani; Vahid Mashayekhi; Housein Mortazavi; Yasaman Taslimi; Sima Habibzadeh; Hossein Malekafzali Ardakani; Sima Rafati;</i>
C0116	VISCERAL LEISHMANIASIS PATIENTS DISPLAY ALTERED COMPOSITION AND MATURITY OF NEUTROPHILS AS WELL AS IMPAIRED NEUTROPHIL EFFECTOR FUNCTIONS <i>Mulusew Getahun Meselu; Mulusew Getahun; Endalew Yizengaw Shita; Fitsumbrhan Tajebe; Edward Cruz Cervera; Getnet Mesfin Maregu; Emebet Adem; Asrat Hailu; Gert Van der Auwera; Vanessa Yardley; Muluaem Lemma; Ziv Shkedy; Ermias Diro; Arega Yeshanew; Roma Melkamu; Bewketu Mengesha; Manuel Modolell; Markus Munder; Ingrid Muller; Yegnasew Teferi; Pascale Kropf;</i>
C0285	DOES INFLAMMATORY MONOCYTE DIFFERENTIATION GOVERN LEISHMANIA TISSUE TROPISM? <i>Audrey Romano; Flavia Ribeiro-Gomes; Melanie Charmoy; Jonatan Mendez; Sang Hun Lee; Nathan Peters; David Sacks;</i>
C0874	THE ROLE OF NRF2 IN LEISHMANIA INFECTION <i>Marta Reverté Royo; Remzi Onur Eren; Dmitry Kopelyanskiy; Matteo Rossi; Patrik Castiglioni; Florence Prevel; Chantal Desponds; F. Matthew Kuhlmann; Stephen M. Beverley; Nicolas Fasel;</i>

ROOM C SESSION 12 15:30-17:00

Epidemiology

Chairman: Charles Jaffe

Co-chairman: Luigi Gradoni

C0410	MOLECULAR EPIDEMIOLOGY OF HUMAN CUTANEOUS LEISHMANIASIS IN JERICHO AND ITS VICINITY IN PALESTINE FROM 1994 TO 2015 <i>Abedelmajeed Nasereddin; Amer Al-Jawabreh; Suheir Ereqat; Kifaya Azmi; Ziad Abdeen;</i>
C0568	INCIDENCE AND RISK FACTOR FOR POST-KALA-AZAR DERMAL LEISHMANIASIS AND VISCERAL LEISHMANIASIS RELAPSE: EVIDENCE FROM A PROSPECTIVE COHORT STUDY IN BANGLADESH <i>Dinesh Mondal; José Riuz Postigo; Moshtaq Mural Ahmed; Moshtaq Mural; Md. Shakhawat Hossain; Abdul Alim; M. Mamun Huda; Debashis Ghosh; Jorge Alvar; Byron Arana; Greg Matlashewski; Daniel Argaw;</i>
C0604	TIME TRENDS IN VISCERAL LEISHMANIASIS AND L. DONOVANI INFECTION IN NEPAL IN THE CONTEXT OF ELIMINATION <i>Cloots Kristien; Surendra Uranw; Bart Ostyn; Narayan Raj Bhattarai; Basudha Khanal; Prahlad Karki; Marleen Boelaert;</i>
C0782	AN EMERGING CLUSTER OF CUTANEOUS LEISHMANIASIS IN NORTH-EASTERN ITALY: IS A NOVEL STRAIN CIRCULATING IN THIS AREA? <i>Stefania Varani; Martina Moriconi; Margherita Ortalli; Valeria Gaspari; Maria Pia Foschini; Alessandro Ripalti; Roberto Cagarelli; Gert Van der Auwera; Mattia Calzolari; Elena Carra; Gianluca Rugna;</i>
C1011	LEISHMANIASIS IN SWEDEN 1993-2016 <i>Sara Karlsson Sobirk; Malin Inghammar; Mattias Collin; Leigh Davidsson;</i>
C1452	EMERGING FOCI OF VISCERAL LEISHMANIASIS IN ARMENIA ñ MOLECULAR EPIDEMIOLOGY AND PILOT RISK ASSESSMENT BY ECOLOGICAL NICHE MODELING <i>Katrin Kuhls; Olga Moskalenko; Anna Sukiasyan; Ara Keshishyan; Dezdemonia Manukyan; Gayane Melik-Andreasyan; Liana Atshemyan; Sofia Cortes; Marcus Frohme;</i>
C1490	SPREAD OF ZONOTIC VISCERAL LEISHMANIASIS FROM NORTHERN TO CENTRAL TUNISIA <i>Elyes Zhioua; Zoghlami Ziad; Chouih Amira; Dachraoui Khalil; Kaabi Belhassen;</i>
C0892	CANINE POPULATION DYNAMICS DETERMINE LEISHMANIA INFANTUM TRANSMISSION RATES AND INTERVENTION EFFORT <i>Erin Dilger; Samik Datta; Reginaldo Brazil; Gordon Hamilton; Orin Courtenay;</i>

**ASYMTOMATIC LEISHMANIA INFECTION IN FUENLABRADA HIV COHORT. LEISHMANIASIS
OUTBREAK IN FUENLABRADA, SPAIN**

C1547

Alicia Castro; Eugenia Carrillo; Juan San Martín López; Laura Botana; Laura Molina; Laura Fernández; Belén Matía; Carmen Chicharro; Javier Nieto; Sheila Ortega; Ana Ibarra-Meneses; Luis Horrillo; Carmen Sánchez; Javier Moreno; Jose Manuel Ruiz Giardin;