On behalf of the organizers, we are pleased and honored to announce and welcome all of you to the XXVIII World Congress of Echinococcosis, which will be held in Lima, Peru, from October 29-31, 2019. The Congress is organized under the sponsorship of the The World Association of Echinococcosis (WAE), the Peruvian Association of Hydatidology (PAH), Universidad Nacional Mayor de San Marcos and Universidad Peruana Cayetano Heredia and the Ministry of Health. Despite the enormous efforts to control and eliminate Echinococcosis in the world, many countries from Latin America, Asia, Africa and Europe still report high prevalence and incidence rates of Cystic Echinococcosis (CE, E. granulosus) in humans and animals. Furthermore, there are two other important Echinococcosis; first, Alveolar Echinococcosis (AE, E. multilocularis) that represents a serious disease in several countries in Asia, and second, Neotropical Echinococcosis (NE, E. vogeli) which affect a considerable region in Latin America.

Country-based Control Programs have been struggling these parasites for decades with different successes or failures. New and recent attempts have been implemented in other countries, and their impact on Echinococcus elimination would come in the near future. We expect that this XXVIII World Congress of Echinococcosis would be a remarkable scientific event that will bring the interest of all distinguish experts and professionals in the field from all over the World. This meeting will create the environment to exchange experiences, research, outstanding findings, collaboration, and enhance the relationships among all participants.

The Congress is addressing to physicians, veterinarians, biologists, parasitologists, pharmacologists, infectious diseases specialists, surgeons, epidemiologists, public health practitioners, laboratory specialists, economists, and all who are involved and/or interested in Echinococcosis. The Congress will be carried out on round tables, scientific sessions, symposium, and poster sessions. The official language of the Congress is English.

We thank all of you in advance for your participation and commitment to defeat this zoonotic parasite in the World. Your presence in this World Congress will give the prestige of the outstanding scientific event.

Welcome to Lima, we hope you enjoy your stay in our beautiful country.

ORGANIZING COMMITTEE
CHAIRS AND INVITED SPEAKERS (for Pre-Congress Course and Congress)

1. Abela-Ridder, Bernadette, PhD (Department of the Control of Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland)

2. Acosta, Gerardo, PhD (Instituto de Medicina Preventiva Veterinaria y Programa de Investigación Aplicada en Fauna Silvestre, Facultad de Ciencias Veterinarias, Universidad Austral de Chile, Chile)

3. Akhan, Okan, MD, Prof. (Faculty of Medicine, Hacettepe University, Ankara, Turkey)

4. Altintas, Nazmiye, PhD (Professor of Ege University, Medical Faculty, Department of Parasitology, Bornova-Izmir, Turkey)

5. Alvarez, Cristian, MSc (Institute of Parasitology, Vetsuisse Faculty, University of Zürich, Switzerland)

6. Brunetti, Enrico, MD (Department of Clinical Surgical Diagnostic and Paediatric Sciences, University of Pavia, Pavia, Italy)

7. Budke, Christine, PhD (College of Veterinary Medicine & Biomedical Sciences, Texas A&M University, USA)

8. Bustamante, José, DVM (Ministerio de Salud, Perú)

9. Casas, Natalia, Mg (Coordinación de Zoonosis, Ministerio de Salud y Desarrollo Social de la Nación de Argentina)

10. Casulli, Adriano, PhD (Department of Infectious Diseases, Istituto Superiore di Sanita’, Rome, Italy)

11. Deplazes, Peter, Dr. (Institute of Parasitology, University of Zurich, Switzerland)

12. Elissondo, Celina, Dr (Laboratorio de Zoonosis Parasitarias, Instituto de Investigaciones en Producción Sanidad y Ambiente, Facultad de Ciencias Exactas y Naturales, Universidad Nacional de Mar del Plata, CONICET, Argentina)

13. Ferreira, Ciro, MD (Presidente de la Comisión Nacional de Zoonosis, Uruguay)

14. Flores, Ubaldo, DVM, Mg (Servicio Nacional de Sanidad Agraria, Ministerio de Agricultura y Riego, Peru)

15. Gavidia, César, DVM, MPH, PhD (Facultad de Medicina Veterinaria, Universidad Nacional Mayor de San Marcos, Peru)

16. Graeter, Tilmann, PD Dr. med. (Department of Diagnostic and Interventional Radiology, University Hospital Ulm, Ulm, Germany)
17. Grüner, Beate PD Dr.med. (Leitung Sektion Klinische Infektiologie Universitätsklinikum Ulm, Germany)

18. Guarnera, Eduardo, MD (Secretario General de la Asociación Internacional de Hidatidología/World Association of Echinococcosis, Argentina)

19. Heath, David, PhD (AgResearch New Zealand Limited, HopKirk Research Institute, Grasslands Research Centre, Palmerston North, New Zealand)

20. Jenkins, David, PhD (School of Animal and Veterinary Sciences, Charles Sturt University, Wagga, Australia)

21. Junghanss, Thomas, MD (Heidelberg University Hospital, Germany)

22. Kachani, Malika, DVM, PhD, NAPF (Professor of Parasitology & Global Health, College of Veterinary Medicine, Western University of Health Sciences, Pomona, California, USA)

23. Lightowlers, Marshall, PhD (University of Melbourne, Australia)

24. Larrieu, Edmundo, PhD (Universidad Nacional de Rio Negro, Argentina)

25. Millon, Laurence, PhD, Prof. (Head of Parasitology-Mycology, University Hospital, Besançon, France)

26. Montalvo, Raúl, MD, Mg, Dr (Jefe del Departamento de Enfermedades Infecciosas Tropicales del Hospital Daniel Alcides Carrión-Huancayo, Peru)

27. Moro, Pedro, MD, MPH (Centers for Disease Control and Prevention, Atlanta, USA)

28. Müllhaupt, Beat, Dr. Prof. (UniversitätsSpital Zürich Klinik für Gastroenterologie und Hepatologie, University of Zurich, Switzerland)

29. Náquira, César, Dr (Universidad Nacional Mayor de San Marcos, Peru)

30. Ran, Zhiguang, PhD, Professor (General Manager Assistant / Director of Quality, Research & Development Chongqing Auleon Biologicals Co., Ltd, China)

31. Romig, Thomas, PhD (Universität Hohenheim, Parasitology Unit, Stuttgart, Germany)

32. Santillán, Graciela, Dr (Departamento de Parasitología Instituto Nacional de Enfermedades Infecciosas – ANLIS Carlos G Malbran Argentina)

33. Santivañez, Saul, MD, MPH, PhD (Universidad Peruana Cayetano Heredia, Peru)

34. Sayes, Julio, MSc (Coordinador Técnico de la Comisión Nacional de Zoonosis, Uruguay)

35. Siles, Mar, PhD (Instituto de Recursos Naturales y Agrobiología de Salamanca, Spain)
36. Stojkovic, Marija, MD (Clinical Tropical Medicine Unit, Heidelberg University Hospital Germany)

37. Tamarozzi, Francesca, PhD (Department of Infectious Diseases, Istituto Superiore di Sanita’, Rome, Italy)

38. Torgerson, Paul, PhD (Professor of Veterinary Epidemiology, Vetsuisse Faculty, Zurich, Switzerland)

39. Uchiumi, Leonardo, MD (Ministry of Health of Río Negro Province, Argentina)

40. Verastegui, Manuela, Mg, PhD (Universidad Peruana Cayetano Heredia, Peru)

41. Vizcaychipi, Katherina, MSc (INMeT e INEI – ANLIS “Carlos G. Malbran”, Argentina)

42. Vuitton, Dominique A., MD, PhD (Professor Emeritus of Clinical Immunology, WHO Collaborating Centre on Prevention and Treatment of Human Echinococcosis, University Bourgogne Franche-Comté, France)
# CONGRESS PROGRAM

## Monday, October 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity (Sala Mangomarca)</th>
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<tr>
<td>08.30 - 18.00</td>
<td>Registration</td>
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<tr>
<td>09.00 – 18.00</td>
<td>Pre-Congress Course: <strong>Advances in Diagnosis and Management of Echinococcosis.</strong></td>
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<tr>
<td>18:30 – 19.30</td>
<td>Welcome and Opening Ceremony&lt;br&gt;Ministry of Health&lt;br&gt;Ministry of Agriculture – Peruvian Veterinary Service (SENASA)&lt;br&gt;Universidad Nacional Mayor de San Marcos&lt;br&gt;Universidad Peruana Cayetano Heredia&lt;br&gt;World Association of Echinococcosis (Dr. Ciro Ferreira)</td>
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<tr>
<td>20.00 - 22.00</td>
<td>Social Confraternity</td>
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## Tuesday, October 29

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<tr>
<th>Time</th>
<th>Sala Mangomarca</th>
<th>Sala Huantile 2</th>
<th>Sala Huantile 1</th>
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<tbody>
<tr>
<td>Oct. 29</td>
<td><strong>Round table 1</strong>&lt;br&gt;Cystic Echinococcosis in Peru: Current Situation&lt;br&gt;<strong>CHAIR</strong>&lt;br&gt;César Náquira, Dr (Peru)&lt;br&gt;<strong>INVITED SPEAKERS</strong>&lt;br&gt;- Saúl Santivánez, PhD (Peru)&lt;br&gt;- César Gavidia, PhD (Peru)&lt;br&gt;- Ubaldo Flores, Mg (Peru)&lt;br&gt;Peruvian Veterinary Service (SENASA)&lt;br&gt;“Peruvian Pilot Program of Prevention and Control of Cystic Echinococcosis / Hydatidosis”&lt;br&gt;- José Bustamante, MV (Peru)&lt;br&gt;Peruvian Ministry of Health</td>
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<td>Poster session 1 (Posters from 1 – 40)</td>
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<td>09:00 – 11:00</td>
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<tr>
<td>11:00 – 11:30</td>
<td><strong>Coffee break</strong></td>
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<tr>
<td>Time</td>
<td>Symposium 1: Imaging methods in the diagnosis and follow up of human Cystic Echinococcosis</td>
<td>Symposium 2: Molecular biology of the species of <em>Echinococcus</em></td>
<td>Symposium 4: Diagnosis and treatment / prevention of cystic echinococcosis (intermediate hosts, animal models)</td>
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<tr>
<td>Oct. 29</td>
<td>CHAIR Francesca Tamarozzi, PhD (Italy)</td>
<td>CHAIR Dominique Vuitton, PhD (France)</td>
<td>CHAIR Cesar Gavidia, PhD (Peru)</td>
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<tr>
<td>11:30 – 13:00</td>
<td>INVITED SPEAKERS - Thomas Junghanss, MD (Germany) “US, CT and MRI in cystic echinococcosis”</td>
<td>INVITED SPEAKERS - Thomas Romig, PhD (Germany) “Species and genotypes: what is new?”</td>
<td>INVITED SPEAKERS - Celina Elissondo, Dr. (Argentina)</td>
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<tr>
<td></td>
<td>- Marija Stojkovic, MD (Germany) “US in follow-up (watch and wait) overview of evidences gathered so far”</td>
<td>SCIENTIFIC ORAL PRESENTATIONS 1. Nuray Altintas, MD (Turkey) “Distribution map of <em>Echinococcus granulosus</em> genotypes in Turkey”</td>
<td>- David Heath, PhD (New Zealand) “EG95 vaccine testing in China. Factory production,</td>
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<td></td>
<td>- Francesca Tamarozzi, PhD “Update on the WHO-IWGE work on imaging”</td>
<td>2. Jenny Knapp (France) “European Alveolar echinococcosis genotyping: an EmsB microsatellite analysis”</td>
<td>Poster session 1 (Posters from 1 – 40)</td>
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<tr>
<td>13:00 – 14:30</td>
<td>Lunch</td>
<td>3. Gérald Umhang (France) “Probability of detection of <em>Echinococcus multilocularis</em> DNA in fox fecal samples”</td>
<td>Poster session 1 (Posters from 1 – 40)</td>
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<tr>
<td>Oct. 29</td>
<td>Symposium 3: Immunological methods of the diagnosis and follow up of human Cystic Echinococcosis</td>
<td>Symposium 4: Diagnosis and treatment / prevention of cystic echinococcosis (intermediate hosts, animal models)</td>
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<td>14:30 – 16:00</td>
<td>CHAIR Mar Siles, PhD (Spain)</td>
<td>CHAIR Cesar Gavidia, PhD (Peru)</td>
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<td>INVITED SPEAKERS - Manuela Verastegui, PhD (Peru)</td>
<td>INVITED SPEAKERS - Celina Elissondo, Dr. (Argentina)</td>
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<td>SCIENTIFIC ORAL PRESENTATIONS 4. Francesca Tamarozzi (Italy) “Diagnostic performances of commercial elisa, iha, and wb for the diagnosis of echinococcal vs</td>
<td>- David Heath, PhD (New Zealand) “EG95 vaccine testing in China. Factory production,</td>
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<td>Poster session 1 (Posters from 1 – 40)</td>
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non-echinococcal lesions: a retrospective analysis of data of a single reference centre”

5. Bao Haihua (China)
   “Serum Ferritin combined with MRI in identifying IgG negative Application study of hepatic cystic echinococcosis and hepatic cysts”

6. Laurence Millon (France)
   “Value of soluble programmed death-1 (sPD-1) and sPD-ligand-1 (sPDL-1) as immunological biomarkers for the follow-up of cystic echinococcosis in Tunisian pediatric patients”

7. Jun Li (China)
   “A platform for identifying novel carbazole aminoalcohols against echinococcosis”

8. Ariel Naidich (Argentina)
   “Towards an Experimental Model For Studying Cyst Formation”

9. Katherina Vizcaychipi (Argentina)
   “Serodiagnostic Study of Cystic Echinococcosis in Sheep from areas of Amazonian Dominion, Province of Misiones, Argentina”

10. Haroon Ahmed (Pakistan)
    “Cystic echinococcosis in Pakistan due to stray dogs and livestock slaughtering habits: research priorities”

16:00 – 16:30 Coffee break

Oct. 29
16:30 – 17:30 Conference 1: Socioeconomic impact of Echinococcosis in endemic countries

CHAIR
Paul Torgerson, PhD (Switzerland)

INVITED SPEAKER
Christine Budke, PhD (USA)

17:30 – 19:00 World Association of Echinococcosis - General Assembly (Sala Mangomarca)
## Wednesday, October 30

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<tr>
<th>Time</th>
<th>Sala Mangomarca</th>
<th>Sala Huantile 2</th>
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<tr>
<td>Oct. 30</td>
<td><strong>Round table 2:</strong> Situation of Cystic Echinococcosis around the world</td>
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<td>Poster session 2 (Posters from 41 – 62)</td>
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<tr>
<td>09:00 – 11:00</td>
<td><strong>CHAIR</strong> Edmundo Larrieu, PhD (Argentina)</td>
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<td><strong>INVITED SPEAKER</strong></td>
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<td></td>
<td>- Adriano Casulli, PhD (Italy) <em>The burden of cystic and alveolar echinococcosis in Europe</em></td>
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<td>- David Heath, PhD (New Zealand)</td>
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<td></td>
<td>- Julio Sayes, MSc (Uruguay) <em>National Control Program of Cystic Echinococcosis in Uruguay: achievements and future challenges</em></td>
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<td>11:00 – 11:30</td>
<td><strong>Coffee break</strong></td>
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<td>Oct. 30</td>
<td><strong>Symposium 5:</strong> Surgery and other intervention options for Cystic Echinococcosis treatment in humans</td>
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<td>11:30 – 13:00</td>
<td><strong>CHAIR</strong> Okan Akhan, MD, Prof. (Turkey)</td>
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<td><strong>INVITED SPEAKERS</strong></td>
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<td></td>
<td>- Enrico Brunetti, MD (Italy) <em>PAIR technique: Overview</em></td>
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<td>- Ciro Ferreira, MD (Uruguay)</td>
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<td>- Okan Akhan, MD, Prof. (Turkey) <em>Catheterization and MoCaT techniques: What is new?</em></td>
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<td><strong>Symposium 6:</strong> Diagnosis and classification of human Alveolar Echinococcosis</td>
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<td><strong>CHAIR</strong> Peter Deplazes, Professor (Switzerland)</td>
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<td><strong>INVITED SPEAKERS</strong></td>
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<td></td>
<td>- Beat Müllhaupt, Prof. (Switzerland) <em>Clinical and laboratory diagnosis of Alveolar Echinococcosis</em></td>
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<td>- Tilmann Graeter (Germany) <em>Imaging classification of Alveolar Echinococcosis</em></td>
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<tr>
<td>SCIENTIFIC ORAL PRESENTATIONS</td>
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<td>11. Xinyu Peng (China)</td>
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<td>12. Karima Achour (Algeria)</td>
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<tr>
<td>“Algerian experience in medico-surgical management of hydatid disease since the World Congress of WAE in Algeria in 2017”</td>
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<th>SCIENTIFIC ORAL PRESENTATIONS</th>
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<tbody>
<tr>
<td>13. Wenya Liu (China)</td>
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<tr>
<td>“Evaluation of Residual Liver Function in Patients with Hepatic Alveolar Echinococcosis (HAE) with Energy Spectrum CT”</td>
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<tr>
<td>14. Dominique Vuitton (France)</td>
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<td>“AE hepatic lesions: correlation between calcifications at CT and FDG-PET/CT metabolic activity”</td>
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<td>15. Bao Haihua et al. (China)</td>
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<td>“Gd-EOB-DTPA-enhanced MRI to evaluate the lesion and liver function in Hepatic Alveolar Echinococcosis”</td>
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<td>16. Philipp Kronenberg</td>
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<td>(Switzerland)</td>
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<td>“Early serological diagnosis of human alveolar echinococcosis”</td>
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| 13:00 – 14:30 |
| Lunch         |

| Oct. 30       |
| 14:30 – 16:00 |

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<thead>
<tr>
<th>Symposium 7: Anti-parasitic drug treatment of Human Cystic Echinococcosis</th>
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<tr>
<td>CHAIR Thomas Junghanss, MD (Germany)</td>
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<tr>
<td>INVITED SPEAKERS</td>
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<tr>
<td>Marija Stojkovic, MD (Germany)</td>
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<tr>
<td>“Antiparasitic drug treatment of Cystic Echinococcosis: the evidence of cyst stage specific efficacy”</td>
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<tr>
<th>Symposium 8: Treatment of Alveolar Echinococcosis</th>
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<tbody>
<tr>
<td>CHAIR Beate Grüner, PD Dr.med (Germany)</td>
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<tr>
<td>INVITED SPEAKERS</td>
</tr>
<tr>
<td>Beat Müllaupt, Professor (Switzerland)</td>
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<tr>
<td>“Is it possible to stop benzimidazole treatment in patients with inoperable alveolar echinococcosis?”</td>
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| Poster session 2 (Posters from 41 – 62) |
Leonardo Uchiumi, MD (Argentina)
"Global access to Benzimidazoles: preliminary results of an ongoing survey"

Marija Stojkovic MD (Germany), Leonardo Uchiumi MD (Argentina), Thomas Junghanss MD (Germany)
Interactive case series: “Would you treat this patient with albendazole?”

SCIENTIFIC ORAL PRESENTATIONS
17. Adriano Casulli (Italy)
“Patent on Salts having Benzimidazolic Compounds: Focus on Sodium Salt of Ricobendazole (Na-Rbz) and its Enantiomers”

Beate Grüner, PD Dr.med (Germany)
“Alveolar Echinococcosis in Germany: Retrospective Analysis of 280 Cases from 2011 to 2018”

SCIENTIFIC ORAL PRESENTATIONS
18. Yingmei Shao (China)
“East meets West in pushing the envelope of End-stage Alveolar Echinococcosis Surgery: Ex Vivo Liver Resection and Autotransplantation”

19. Moreau Joséphine (France)
“Is radical surgery still the gold standard for European patients with alveolar echinococcosis?”

20. Yi Jiang (China)
“To predict the correlation between calcification and its biological activity of Hepatic alveolar echinococcosis”

21. Renyong Lin (China)
“Immune exhaustion and reversal by blocking checkpoint receptor TIGIT in patients and experimental mice with alveolar echinococcosis”

16:00 – 16:30 Coffee break

Oct. 30
16:30 – 18:00 Round table 3:
Countries with control / elimination programs of Cystic Echinococcosis

CHAIR
Pedro Moro, MD, MPH (CDC, USA)

Poster session 2
(Posters from 41 – 62)
### INVITED SPEAKERS
- Nazmiye Altintas, PhD (Turkey)
- Marshall Lightowlers, PhD (Australia)
- Paul Torgerson, PhD (Switzerland)
- Ran Zhiguang (China)

**“Large-scale Vaccination of EG95 Vaccine Significantly Interfered with the Dog-Sheep and Goat Transmission Chain of Hydatidosis”**

### Scientific Session 1 (oral presentations)

**CHAIR:**
Malika Kachani, PhD (USA)

22. Nihal Dogan (Turkey)
*“The Case of Cystic Echinococcosis (CE) in Recent Years in the World and Turkey: (Revision of Epidemiological Data)”*

23. Victor del Rio (UK)
*“Records of deaths attributed to Echinococcosis in Brazil: 1995-2016”*

24. Joaquin M. Prada (UK)
*“Mathematical modelling of Echinococcus granulosus to identify optimal intervention strategies: a case study from five pilot interventions in the Peruvian highlands”*

25. Nelly Huamani (Peru)
*“Epidemiological Surveillance of Human Hydatidosis between the years 2018 at the beginning of”*

### Scientific Session 2 (oral presentations)

**CHAIR:**
Dominique Vuitton, PhD (France)

31. Adilan.Aierken (China)
*“The clinical value of serum procalcitonin and its clearance rate for infection diagnostics and the clinical diagnostics value of procalcitonin and its clearance rate for infection in liver autotransplantation during perioperative period”*

32. Jianhai Yin (China)
*“Pro-angiogenic Activity of Monocytic Myeloid-derived Suppressor Cells from Echinococcus granulosus-infected mice and the regulatory role of miRNAs”*

33. Jianhua Wang (China)
*“In vitro and in vivo efficacy of DNA damage repair inhibitor Veliparib combined with artesunate against Echinococcus granulosus”*
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<tr>
<td>the year 2019 in the Ayacucho’s Region – Peru”</td>
<td>26. Hao Wen (China)  “Establishment and Innovative Practice of Integration System of Prevention, Diagnosis &amp; Management (ISPDM) for Human Echinococcosis”</td>
<td>34. Jianhua Wang (China)  “Effect of siRNA interference targeting EgRPS9 gene on DNA oxidative damage of Echinococcus granulosus protoscoleces”</td>
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<tr>
<td>37. Christian Hidalgo (Chile)  “Multiple haplotypes of Echinococcus granulosus sensu stricto in single naturally infected intermediate hosts”</td>
<td>38. Gérald Umhang (France)  “Presence of Echinococcus multilocularis in eastern Europe: EmsB microsatellite analyses revealed main influence of European historical focus but also another from Asia”</td>
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<td>20:00 Congress Dinner</td>
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### Thursday, October 31

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<th>Time</th>
<th>Sala Mangomarca</th>
<th>Sala Huantile 2</th>
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<tr>
<td>Oct. 31</td>
<td><strong>Round table 4:</strong> Continental project experiences on Cystic Echinococcosis</td>
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<td>09:00-11:00</td>
<td><strong>CHAIR</strong> Adriano Casulli, PhD (Italy)</td>
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<td><strong>INVITED SPEAKERS</strong></td>
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<td>- CESSARi</td>
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<td>Thomas Romig, PhD (Germany)</td>
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<td>“CESSARi: Research on Cystic Echinococcosis in Sub-Saharan Africa”</td>
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<td>Adriano Casulli, PhD (Italy)</td>
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<td>“The international impact of HERACLES collaborative project on cystic echinococcosis”</td>
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<td>Francesca Tamarozzi, PhD (Italy)</td>
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<td>“The state of European Register of Cystic Echinococcosis (ERCE) 5 years after its inception”</td>
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<td>Edmundo Larrieu, PhD (Argentina)</td>
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<td>“Molecular-epidemiological studies on pathways of transmission and long lasting capacity building to prevent cystic echinococcosis infection: outline of PERITAS project”</td>
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<td>Adriano Casulli, PhD (Italy)</td>
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<td>“ERANET-LAC project: Development of new diagnostic and treatment options for helminthic neglected diseases (NDTND)”</td>
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<td><strong>Poster session 3</strong></td>
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<td>(Posters from 63 – 91)</td>
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**SCIENTIFIC PRESENTATIONS**

- Leonardo Uchiumi (Argentina)
  “Ultrasound screenings in Rio Negro province, Argentina: preliminary results from stage 1 of PERITAS project”

- Gerardo Acosta (Chile)
  “Ultrasound screenings in Limari province, Chile: preliminary results from stage 1 of PERITAS project”

- Saul Santivañez (Peru)
  “Ultrasound screenings in Peru: preliminary results from stage 1 of PERITAS project”

11:00 – 11:30 **Coffee break**

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<th>Oct. 31</th>
<th>11:30 – 13:00</th>
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<tr>
<td><strong>Symposium 9: WHO-IWGE</strong></td>
<td><strong>Symposium 10: EcoHealth / OneHealth</strong></td>
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<td><strong>CHAIRS</strong></td>
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<td>Thomas Junghanss, MD (Germany)</td>
<td>Gerardo Acosta, PhD (Chile)</td>
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<td>Okan Akhan, MD, Prof. (Turkey)</td>
<td><strong>INVITED SPEAKERS</strong></td>
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<td>- Bernadette Abela-Ridder PhD (WHO, Geneva, Switzerland)</td>
<td>- Malika Kachani, PhD (USA)</td>
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<tr>
<td>“Reinserting CE and AE in the New NTD roadmap and Universal Health Coverage”</td>
<td>“One Health: the reality out there…”</td>
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<td>- Thomas Junghanss MD (Germany)</td>
<td>- Peter Deplazes, PhD (Switzerland)</td>
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<td>“The ‘CE Technical Manual’: reaching out to health services and patients”</td>
<td>Alveolar Echinococcosis in Europe: transmission ecology, diagnosis and control in a Swiss “One Health” network”</td>
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<td>- Laurence Millon PhD (France)</td>
<td>- David Jenkins, PhD (Australia)</td>
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<td>“Update from the AE clinical working group”</td>
<td>“One Health and the evolving epidemiology of Echinococcus granulosus in Australia”</td>
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<td>- Edmundo Larrieu PhD (Argentina) / Marshall Lightowlers (Australia)</td>
<td><strong>Poster session 3</strong> (Posters from 63 – 91)</td>
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<tr>
<td>“Control of Cystic Echinococcosis: Background and Prospects”</td>
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<td>13:00 – 14:30</td>
<td>Lunch</td>
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**Symposium 11: Diagnosis of Echinococcosis in definitive host**

**CHAIR**
Graciela Santillán, Dr (Argentina)

**INVITED SPEAKERS**
- Cristian Alvarez, MSc (Switzerland)
  “Update on knowledge of transmission of Echinococcus to humans”
- Edmundo Larrieu (Argentina)
- Graciela Santillán, Dr (Argentina)
  “Cystic Echinococcosis: environmental diagnosis”

**SCIENTIFIC ORAL PRESENTATIONS**
41. Luis M. Jara (Peru)
  “Development and validation of a Copro-ELISA sandwich for detection of Echinococcus”

**Symposium 12: Neotropical Echinococcosis: emerging zoonosis**

**CHAIR**
Katherina Vizcaychipi, MSc (Argentina)

- Katherina Vizcaychipi MSc (Argentina)
  “Epidemiological situation and importance of the Neotropical Echinococcosis in America and the world”
- Speaker to confirm “Diagnosis and treatment of Neotropical Echinococcosis”
- Natalia Casas (Argentina)
  “Neotropical and Cystic Echinococcosis, a multidisciplinary view from”

Poster session 3 (Posters from 63 – 91)
### Scientific Session 3 (oral presentations)

**Chair:** Leonardo Uchiumi, MD (Argentina)

4. Malika Kachani (USA)  
   “Control of Hydatid Disease in the Context of the Neglected Zoonotic Disease System: Applying One Health in the Oloisukut Conservancy, Narok, Kenya”

44. Veronica Poggio (Argentina)  
   “Eg95 vaccine monitoring of intermediate hosts. Analysis and inclusion of the socio-cultural context in vaccination programs”

45. Francesca Tamarozzi (Italy)  
   “Epidemiological factors associated with human cystic echinococcosis investigated through a semi-structured questionnaire during the ultrasound surveys of the heracles project”

46. Francesca Tamarozzi (Italy)  
   “Performance of a new il-4 based whole-blood test for detecting reactivation of echinococcal cysts”

47. Edmundo Larrieu (Argentina)  
   “Granulosos-soluble membrane antigens in dogs”

48. The public health perspective"

### Scientific Session 4 (oral presentations)

**Chair:** Nazmiye Altintas, PhD (Turkey)

58. Iris Fischer (Germany)  
   “Distribution of alveolar echinococcosis according to environmental and geographical factors in Germany, 1992-2018”

59. Haihua Bao (China)  
   “Quantitative Study of Fat Deposition and Iron Deposition in Patients with HAE by HISTO and q-DIXON Techniques on 3.0T MR”

60. Julian Schmidberger (Germany)  
   “Health-related quality of life in patients with alveolar echinococcosis: surgical versus conservative drug therapy – a quality of life comparison”

61. Meng Qing Yang (China)  
   “Performance of a new il-4 based whole-blood test for detecting reactivation of echinococcal cysts”
<p>| 49. Liying Wang (China) | “Study on the transmission risk of echinococcosis in township scale in Tibet” |
| 50. Selim M’Rad (Tunisia) | “Cystic echinococcosis in Tunisia: hypoendemic area in hyperendemic country, myth or reality?” |
| 51. Katherina Vizchaychipi (Argentina) | “Cystic Echinococcosis in cattle of Misiones, Argentina” |
| 52. Maria Puchulu (Argentina) | “Social Representations on Echinococcosis cystic of families of High Mountain, Tucumán, Argentina” |
| 53. David Jenkins (Australia) | “Economic impact of hydatid disease on the Australian beef industry” |
| 56. David Jenkins (Australia) | “Economic impact of hydatid disease on the Australian beef industry” |
| 57. Bastian Marquis (Switzerland) | “Echinococcus multilocularis infection in solid-organ transplant patient recipients” |
| 58. Frantisek Stejskal (Czech Republic) | “Human Alveolar Echinococcosis in the Czech Republic: Clinical Outcome and Laboratory Parameters” |
| 59. Tilmann Graeter (Germany) | “Hepatic alveolar echinococcosis: correlation between computed tomography morphology and inflammatory activity in positron emission tomography points to a possible sequential evolution of the lesions” |
| 60. Tilmann Graeter (Germany) | “International evaluation of vascular / biliar involvement of hepatic” |</p>
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<th>56. Karima Achour (Algeria)</th>
<th>57. Julio Sayes (Uruguay)</th>
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<td>“The specificity of the surgical management of the lung hydatid cyst, experience of the department of thoracic surgery in Algiers”</td>
<td>“Uruguay: an effective control of zoonoses”</td>
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<tr>
<th>67. Teivi Laurimäe (Switzerland)</th>
<th>68. Sven Baumann (Germany)</th>
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<td>“Lesions and extrahepatic disease manifestation due to hepatic alveolar Echinococcosis according to EMUC-CT classification: a multicentre cohort study”</td>
<td>“Worldwide literature on epidemiology of human alveolar echinococcosis: a systematic review of research published in the twenty-first century”</td>
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**Closing Ceremony**

18:30 – 19:00

World Association of Echinococcosis (Dr. Ciro Ferreira) – Awards and official recognitions

Organizing Committee of the 28th World Congress of Echinococcosis