

BRITA
XXVII
2016
Belém
Pará-Brasil

23 a 28
de outubro

October 23rd to 28th
23 a 28 de octubre



Reunião Internacional de Raiva nas Américas

Rabies in The Americas Internacional Meeting
Reunión Internacional de la Rabia en Las Américas

Programação / Program / Programación



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en Salud Animal/SENASICA

Secretar a de Agricultura, Ganader a,

Desarrollo Rural, Pesca y Alimentaci n

Tec mac, Estado de M xico, M xico

Rosely Cerqueira de Oliveira

Academia de Medicina de Bras lia

Bras lia, DF, Brasil

Ver nica Guti rrez Cedillo

Subdirecci n de Zoonosis/CENAPRECE

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Dennis Slate

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Roly Tinline

Susan Nadin-Davis



DOMINGO, 23 DE OUTUBRO

Sunday October 23
Domingo, 23 de octubre

09:00-16:00

CRENCIAMENTO / REGISTRATION / ACREDITACIÓN

14:00 - 16:30

DESAFIO RAIVA " CONCURSO DE FOTOGRAFIAS" (MANGAL DAS GARÇAS)

RABIES CHALLENGE: PHOTOGRAPHY COMPETITION (MANGAL DAS GARÇAS)
DESAFIO RABIA "FOTOGRAFIA CONCURSO" (MANGAL DAS GARÇAS)

19:00 - 19:30

CERIMÔNIA DE ABERTURA / OPENING CEREMONY / CEREMONIA DE APERTURA

REPRESENTANTES / REPRESENTATIVES / REPRESENTANTES:

Ministério da Saúde (MS) / Health Ministry (MS) /
Ministerio de Salud (MS)
Secretaria de Vigilância em Saúde (SVS) / Secretariat of
Health Surveillance (SVS) / Secretaria e Vigilancia em Salud (SVS)
Secretaria de Estado de Saúde Pública (SESPA) / Public
Health State Office (SESPA) / Secretaria de Estado de Salud Pública
(SESPA)
Ministério de Agricultura Pecuária e Abastecimento (MAPA) /
Ministry of Agriculture, Livestock and Food Supply (MAPA) / Ministério de
Agricultura, Pecuária e Abastecimento (MAPA)
Diretor do Centro Panamericano de Febre Afetsa (OPAS) /
Foot-and-mouth Disease Pan-American Center (OPAS) / Director del centro
Panamericano de Fiebre Aftosa (OPAS)
Diretor Instituto Evandro Chagas (IEC) / Evandro Chagas Institute
Director (IEC) / Director Instituto Evandro Chagas (IEC)
Presidente da Comissão Coordenadora da XXVII RITA / XXVII RITA
Organizing Committee President / President del Comité Organizador XXVII
RITA
Presidente do Comitê Internacional da RITA / International
Committee President / Presidente del Comité Internacional RITA

19:30 - 21:00

**RECEPÇÃO DE BOAS VINDAS E COQUETEL DE
ABERTURA** / WELCOME RECEPTION AND COCKTAIL /
RECEPCIÓN, BIENVENIDA Y CÓCTEL

SEGUNDA, 24 DE OUTUBRO

Monday October 24
Lunes, 24 de octubre

08:00 - 16:00

CRENCIAMENTO / REGISTRATION / ACREDITACIÓN

08:30 - 10:30

SESSÃO 1: RAIVA HUMANA, PROFILAXIA E TRATAMENTO

SESSION 1: HUMAN RABIES, PROPHYLAXIS AND TREATMENT
SESIÓN 1: RABIA HUMANA, PROFILAXIS Y TRATAMIENTO
Moderadores / Moderators / Moderadores:
Rosely Oliveira, Noel Tordo

8:30 - 8:45

Keynote: Human rabies, treatment and prophylaxis with
emphasis to the endemic countries.
Noel Tordo

9:00 - 9:15

BARRIERS TO INNOVATION IN HUMAN RABIES
PROPHYLAXIS AND TREATMENT: A CASUAL ANALYSIS OF
INSIGHTS FROM KEY OPINION LEADERS AND LITERATURE
Van de Burgwal LHM, Anne MG Neevel, Pittens CACM,
Osterhaus ADME, Rupprecht CE, Claassen E

9:15 - 9:30

ESTUDO DE CASO DE RAIVA HUMANA OCORRIDOS NO
BRASIL E PAÍSES DA AMÉRICA DO SUL, COM ENFOQUE
PARA AS ÁREAS DE FRONTEIRAS, PERÍODO 2010 A 2015.
Lúcia Regina Montebello Pereira Dourado, Calas EP, Castro APB, Rocha SM,
Vargas A - Secretaria de Vigilância Sanitária em Saúde (SVS), Ministério da
Saúde (MS)

9:30 - 9:45

HEALTH CARE SEEKING BEHAVIORS OF PERSON
POTENTIALLY EXPOSED TO RABIES VIRUS AFTER
IMPLEMENTATION OF AN INTEGRATED ANIMAL BITE CASE
MANAGEMENT PROGRAM, HAITI 2014-2015
Melissa D Ethart, Kligerman M, Augustin PD, Monroe B, Fleurinord L, Millien
M, Crowdis K, Fenelon N, Wallace RM - United States Center for Disease
Control and Prevention, Port-au-Prince, Haiti, Stanford University - School
of Medicine, Palo Alto, California, USA, Ministry of Agriculture, Natural
Resources and Rural Development, Haiti, United States Center of Diseases
Control and Prevention, Poxvirus and Rabies Branch, Atlanta, Georgia,
Christian Veterinary Mission,
Port-au-Prince, Haiti, Pan American Health Organization, Haiti.



9:45 - 10:00

EFFICACY OF HUMAN ONOCLONIAL ANTIBODIES (CL 184) AGAINST DIVERSE BAT RABIES VIRUS VARIANT IN A HAMSTER MODEL

Richard Franka, Carson WC, Ellison JA, Taylor TS, Smith TG, Kuzmina NA, Kuzmin IV, Marissen WE, Rupprecht CE - Center of Disease Control and Prevention, Poxvirus and Rabies Branch, Atlanta, Georgia, USA, Quillen College of Medicine, East Tennessee State University, Johnson City, TN, USA, University of Texas Medical Branch, Galveston, Texas, USA, Janssen Vaccines, Leiden, Netherlands, LYSSA LLC, Cummings, Georgia, USA

10:00 - 10:15

IMPLEMENTACIÓN DE PROFILAXIS POST-EXPOSICIÓN ANTIRRÁBICA HUMAN EN HAITI

Sergio E Recuenco, Fenelon N, Pompel J.C Vigilato M.A - PANAFOSA - Organización Panamericana de la Salud/Organización Mundial de la Salud, Ministerio de Salud Pública de Haití

10:15 - 10:30

CHARACTERIZATION AND PROPHYLAXIS AFTER EXPOSURE TO HUMAN RABIES IN EASTERN AMAZON, STATE OF PARÁ, BRAZIL, BETWEEN 2000 AND 2014

Nailde de Paula Silva, Saraiva EA, Santos KS, Araújo IM, Silva MB, Nasimneto KKG, Guimarães RJPS, Abel I. Laboratório de Epidemiologia e Geoprocessamento (EpiGeo), Programa de Pós - Graduação em Saúde Animal na Amazônia, universidade Federal do Pará (UFPA), Castanhal, Pará, Brasil. Coordenação de Vigilância em Saúde de São João da Ponta, PA, Brasil Laboratório de Geoprocessamento do Instituto Evandro Chagas (IEC). Levilândia, Ananindeua, PA, Brasil.

10:30 - 11:00

COFFEE BREAK

11:00 - 13:00

SESSÃO 2: PATOGENIA E IMUNOLOGIA

SESSION 1: PATHOGENESIS AND IMMUNOLOGY

SESIÓN 2: PATOGENIA Y INMUNOLOGÍA

Moderadores / Moderators / Moderadores:

Alan Jackson, Jane Megid

11:00 - 11:15

Keynote: Rabies virus pathogenesis and immunity..what happens?

Alan Jackson

11:30 - 11:45

SUBSTITUTION OF GENES FROM A STREET RABIES VIRUS CHANGES THE PATHOGENICITY AND PROLIFERATION CAPACITY OF HEP-FLURY BASED CHIMERIC VIRUSES.

Yifei Wang, Qin Tian, Jun Luo, Mingzhu Mei, Jiaojiao Peng, Qiong Zhang,

Yongwen Luo, Xiaofeng Guo

11:45-12:00

AMBIGUOUS ROLE OF IL-23 IN INFECTION BY RABIES VIRUS: MAINTENANCE OF THE TH17 PROFILE OR INTERFERENCE IN THE ESTABLISHMENT OF THE TH1 PROFILE.

Santos LB¹, Guedes F¹, Achkar SM¹, Duarte MIS², Elaine Raniero Fernandes¹
¹Instituto Pasteur, São Paulo, Brasil; ²Laboratório de Patologia de Moléstias Transmissíveis da Faculdade de Medicina da Universidade de São Paulo, Departamento de Patologia, São Paulo, Brasil.

12:00 - 12:15

EFFECTS OF BUFOTENINE ON MICE INFECTED WITH RABIES VIRUS: AN IN VIVO STUDY.

Hugo Vigerelli^{1,2}, Sciani JM¹, Lavezo AA³, Silva ACR², Gomes CP², Pimenta DC¹
¹Laboratory of Biochemistry and Biophysics, Butantan Institute, São Paulo, Brazil, ²Laboratory of Serology, Pasteur Institute, São Paulo, Brazil, ³Laboratory of Biological Quality Control - in vivo, Butantan Institute, São Paulo, Brazil

12:15 - 12:30

GENE EXPRESSION PROFILE INDUCED BY TWO DIFFERENT VARIANTS OF STREET RABIES VIRUS

Camila Michele Appolinario¹, Marchi FA², Peres MG¹, Ribeiro BLD¹, Mioni MR¹, Vicente AF¹, Fonseca CR¹, Rogatto SR², Megid J¹ - ¹UNESP- Univ. Estadual Paulista- Faculdade de Medicina Veterinária e Zootecnia, ²NeoGene- AC Camargo Cancer Center- São Paulo, SP, Brazil

12:30 - 12:45

NEUROINVASIVIDADE, NEUROVIRULÊNCIA E NEUROPATOGENICIDADE DO VÍRUS FIXO CVS/31 E DAS VARIANTES DE RUA DO VÍRUS DA RAIVA (RABV) EM MODELO MURINO DE NEUROINFECÇÃO

Gamon THM¹, Mesquita LP¹, Maiorka PC¹, Asano KM², Achkar SM², Scheffer KC², Fahl WO², Yamamoto K², Mori CMC¹, Enio Mori² - ¹Faculdade de Medicina Veterinária e Zootecnia da Universidade de São Paulo, São Paulo, Brasil
²Instituto Pasteur, São Paulo, Brasil

12:45 - 13:00

IMUNOPATOLOGIA EXPERIMENTAL DO VÍRUS DA RAIVA COM VARIANTES ANTIGÊNICAS 2 E 3

Livia Medeiros Neves Casseb¹, Coelho TFSB¹, Franco ECS¹, Rosa EST¹; Pereira AS¹; Quaresma JAS²; Vasconcelos PFC^{1,2} - ¹Instituto Evandro Chagas, Ananindeua, Pará, Brasil, ²Universidade Estadual do Pará

13:00 - 14:30

ALMOÇO / LUNCH / ALMUERZO

14:30 - 15:00

PRÊMIO GEORGE BAER DE JOVEM PESQUISADOR

GEORGE BAER LATIN AMERICAN INVESTIGATOR AWARD

PREMIO GEORGE BAER DEL JOVEN INVESTIGADOR

SPATIAL EXPANSIONS AND TRAVELLING WAVES OF RABIES IN VAMPIRE BATS IN PERU

Julio A. Benavides^a, Valderrama W^b, Streicker DG^{a,c}, ^aInstitute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, ^bOffice of Animal Health, National Service of Agricultural Health, Ministry of Agriculture, Lima, Peru, ^cMedical Research Council-



University of Glasgow Centre for Virus Research, Glasgow, United Kingdom

15:00 - 16:30

SESSÃO 3: EPIDEMIOLOGIA E VIGILÂNCIA

SESSION 3: EPIDEMIOLOGY AND SURVEILLANCE

SESIÓN 3: EPIDEMIOLOGIA Y VIGILANCIA

Moderadores / Moderators / Moderadores:

Charles E. Rupprecht, Pedro Vasconcelos

15:00 - 15:15

Keynote: Evolution on the epidemiology and surveillance of rabies
Charles E Rupprecht

15:15 - 15:30

GEOGRAPHIC VISUALIZATION OF RABIES SURVEILLANCE
DATA IN THE UNITED STATES, 2014

Benjamin P Monroe, Birhane MG, Blanton J, Yager P, Wadhawa A, Orciari L, Wallace R - Poxvirus and Rabies Branch, Division of High Consequence Pathogens and Pathology, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA, USA.

15:30 - 15:45

SIRVERA: ATUALIZAÇÃO PARA MELHORIA DA QUALIDADE DE
INFORMAÇÃO SOBRE RAIVA NAS AMÉRICAS

Felipe Rocha, Flores BM, Buzanovsky LP, Santos AG, Carvalho MHF, Vigilato MAN, Vilas VJDR, Pompei JCA, Vazquez MJS, Cosivi O - Centro Pan Americano de Febre Aftosa e Saúde Pública Veterinária - Organização Pan Americana da Saúde/Organização Mundial da Saúde (PANAFTOSA - OPAS/OMS)

15:45 - 16:00

DYNAMICS OF RABIES IN THE CARIBBEAN

Janine FR Seetahal¹, Vokaty A², Pradel J³, Louison B⁴, Van Sauters A⁵, James C⁶, Millien MF⁷, Portch R⁸, Carrington CVF¹, Rupprecht CE⁹ - ¹Faculty of Medical Sciences, The University of the West Indies, St. Augustine, Trinidad and Tobago; ²Pan American Health Organization (PAHO), Port of Spain, Trinidad and Tobago; ³CIRAD, UMR CMAEE, CaribVET Coordination Unit, Petit-Bourg, Guadeloupe; ⁴Ministry of Agriculture, St. George's, Grenada; ⁵Ministry of Agriculture, Paramaribo, Suriname; ⁶Veterinary Public Health Unit, Ministry of Public Health, Georgetown, Guyana; ⁷Ministry of Agriculture, Natural Resources and Rural Development, Port-au-Prince, Haiti; ⁸Oniris University of Veterinary Medicine, Food Science and Engineering, Nantes, France; ⁹The Wistar Institute, Philadelphia, USA

16:00 - 16:15

VIGILÂNCIA DA RAIVA NO MUNICÍPIO DE FORTALEZA, CEARÁ
- DESAFIOS E PERSPECTIVAS

Francisco Atualpa Soares Júnior, Rolim BN, Moraes NB, Garcia MRR

16:15 - 16:30

SURVEILLANCE TO ESTABLISH ELIMINATION OF
TRANSMISSION AND FREEDOM FROM DOG MEDIATED RABIES

Katie Hampson¹, Bucheli STM², Caldas E³, Carvalho M⁴, Cleaveland S¹, Dushoff J⁵, González Roldán JF⁶, GuitierrezCedillo V⁶, Haydon DT¹, Hotopp K¹, Lugelo A⁷, Lushasi K^{1,8}, Mancy R¹, Rysava K¹, Vigilato MAN⁴, Del Rio Vilas V⁴ - ¹University of Glasgow, Glasgow, UK, ²Pan American Health Organization/World Health Organization, Ciudad de Mexico, Mexico, ³Unidade Técnica de Vigilância de Zoonoses -UVZ, Brasília, Brazil, ⁴Pan American Health Organization, Rio de Janeiro, Brazil, ⁵McMaster University, Hamilton, Ontario, Canada, ⁶Secretaría de Salud/CENAPRECE, Ciudad de Mexico, Mexico, ⁷Sokoine University of Agriculture, Morogoro, Tanzania, ⁸Ifakara Health Institute, Ifakara, Tanzania.

16:30 - 17:00

COFFEE BREAK

17:00 - 18:30

SESSÃO 4: EPIDEMIOLOGIA MOLECULAR

SESSION 4: MOLECULAR EPIDEMIOLOGY

SESIÓN 4: EPIDEMIOLOGÍA MOLECULAR

Moderadores / Moderators / Moderadores:

Juan Montano, Charles Rupprecht

17:00 - 17:15

Keynote: Viral evolution in rabies, host shifts and emergence
Charles Rupprecht

17:15 - 17:30

HOST-PATHOGEN EVOLUTIONARY SIGNATURES
REVEAL DYNAMICS AND FUTURE INVASIONS OF
VAMPIRE BAT RABIES

Daniel G Streicker^{1,2,3}, Winternitz JC^{3,4,5}, Satterfield D³, Condori-Condori RE⁶, Broos A², Tello C⁷, Recuenco S⁸, Velasco-Villa A⁶, Altizer S³, Valderrama, W⁷ - ¹Institute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, Glasgow, Scotland, UK, ²MRC-University of Glasgow Centre for Virus Research, Glasgow, Scotland, UK, ³Odum School of Ecology, University of Georgia, Athens, GA, USA, ⁴Institute of Vertebrate Biology, Czech Academy of Sciences, v.v.i., Květná Brno, Czech Republic, ⁵Department of Evolutionary Ecology, Max Planck Institute for Evolutionary Biology, Ploen, Germany, ⁶Poxvirus and Rabies Branch, Division of High Consequence Pathogen and Pathology, Centers for Disease Control and Prevention, Atlanta, GA, USA, ⁷Association for the Conservation and Development of Natural Resources, Lima, Peru, ⁸Instituto Nacional de Salud, Ministry of Health of Peru, Lima, Peru

17:30 - 17:45

CARACTERIZAÇÃO MOLECULAR DO GENOMA
COMPLETO DE CEPAS DAS VARIANTES ANTIGÊNICAS
2 E 3 DO VÍRUS DA RAIVA ISOLADAS NA AMAZÔNIA
BRASILEIRA.

Taciana Fernandes Souza Barbosa Coelho¹, Rosa EST¹, Casseb LMN¹, Pereira AS¹, Ferro MNP¹, Paiva FAS¹, Medeiros DBA¹, Vasconcelos PFC¹ - ¹Instituto Evandro Chagas, Ananindeua, Pará, Brasil

17:45 - 18:00

COMPLETE GENOMES OF EIGHT BRAZILIAN
LINEAGES OF RABIES VIRUS

Rafael de Novaes Oliveira¹, Freire CC², Souza, SP³, Iamarino A², Zanotto P. M², Pessoa R⁴, Sanabani S. S⁴, Castilho GC¹, Batista HBCR¹, Carnieli Jr P¹, Macedo CI¹, Watanabe JT⁴, Brandão PE⁵ - ¹Laboratório de Biologia Molecular, Instituto Pasteur, São Paulo, Brasil, ²Laboratório de Evolução Molecular e Bioinformática, Departamento de Microbiologia, Instituto de Ciências Biomédicas-ICB-II, Universidade de São Paulo, São Paulo, Brasil, ³Venco Saúde Animal, Londrina, Brasil, ⁴Departamento de Virologia, Instituto de Medicina Tropical de São Paulo, Universidade de São Paulo, São Paulo, Brasil, ⁵Departamento de Medicina Veterinária Preventiva e Saúde Animal, Faculdade de Medicina Veterinária e Zootecnia,



Universidade de São Paulo, São Paulo, Brasil.

18:00-18:15

DESCRIÇÃO ESPAÇO-TEMPORAL DE RABDOVIRUS (LYSSAVIRUS RHABDOVIRIDAE) NA AMÉRICA DO SUL - BREVES ASPECTOS FILOGENÉTICOS

Renato da Silva Bandeira, Barros BCV. Programa de Pós Graduação em Virologia PPGV- IEC/SVS/MS. ANANINDEUA-PA, BRASIL.

Community Health and Behavioral Sciences, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana, United States, ⁴Facultad de Salud Pública y Administración, Universidad Peruana Cayetano Heredia, Lima, Perú, ⁵Department of Family and Community Health, University of Pennsylvania School of Nursing, Philadelphia, Pennsylvania, United States.

9:30 - 9:45

UTILIZING THE STEP WISE APPROACH TOWARD RABIES ELIMINATION IN GUATEMALA

Emily G Pieracci¹, Nakazawa Y¹, Moran D², Alvarez D², Bertrand G³, Camposeco L³, Motta M⁴, Thomae B⁵, del Aguila JP⁵, Cadena L⁶, Wallace RM¹ - ¹Centers for Disease Control and Prevention, Poxvirus and Rabies Branch, Atlanta, GA, USA, ²Universidad del Valle de Guatemala, Guatemala City, Guatemala, ³Programa Nacional de Zoonosis, Ministerio de Salud Pública y Asistencia Social, Guatemala City, Guatemala, ⁴Universidad de San Carlos de Guatemala, Guatemala City, Guatemala, ⁵Ministerio de Agricultura, Guatemala City, Guatemala, ⁶Centers for Disease Control and Prevention, Global Disease Detection Branch, Guatemala City, Guatemala.

9:45 - 10:00

LABORATORY SURVEILLANCE OF CANINE RABIES IN MEXICO PERFORMED AT InDRE (2008-2016)

Nidia Aréchiga-Ceballos, Chávez-López S, Sandoval-Borja A, Terán-Toledo R, Melo-Munguía M, Padilla-Medina I, Gómez Sierra M, Martínez-Solís D, Animas-Vargas I, Escamilla-Ríos B, Iguala-Vidales M, Vázquez-Pichardo M, Torres-Longoria B, López- Martínez, Díaz Quiñones A. Laboratorio de Rabia. Departamento de Virología. Instituto de Diagnóstico y Referencia Epidemiológicos. Ciudad de México. México.

10:00 - 10:15

HAITI AS A CASE EXAMPLE FOR THE IMPORTANCE OF UNDERSTANDING DOG POPULATIONS TO PLAN EFFECTIVE RABIES VACCINATION PROGRAMS

Ryan M. Wallace, Amber Dismar, John Boone, Yoshinori Nakazawa, Jesse D. Blanton, Kelly Crowdis, Max Millien.

10:15-10:30

COULD WE SEE AN END TO HUMAN DEATHS FROM CANINE RABIES BY 2030?

Louise H Taylor¹, Nel LH^{1,2} - ¹Global Alliance for Rabies Control, Kansas, USA, ²Department of Microbiology and Plant Pathology, University of Pretoria, Pretoria, South Africa.

10:30- 11:00 COFFEE BREAK

11:00-13:00

SESSÃO 6: RAIVA EM ANIMAIS SILVESTRES

SESSION 6: WILDLIFE RABIES

SESIÓN 6: RABIA SILVESTRE

Moderadores / Moderators / Moderadores:
Richard Chipman, Sergio Recuenco

11:00- 11:15

Keynote: Wild animal rabies: past , present and future perspectives

Richard Chipman

TERÇA, 25 DE OUTUBRO

Tuesday, October 25

Martes, 25 de octubre

08:30 - 10:30

SESSÃO 5: RAIVA EM ANIMAIS DOMÉSTICOS

SESSION 5: RABIES IN DOMESTIC ANIMALS

SESIÓN 5: RABIA EN ANIMALES DOMESTICOS

Moderadores / Moderators / Moderadores:

Veronica Gutierrez, Laura Robinson

8:30 - 8:45

Keynote: Global situation of animal rabies

Veronica Gutierrez

8:45 - 9:00

REINTRODUCCIÓN DE RABIA CANINA EN AREQUIPA,PERÚ:
RETOS Y LECCIONES PARA LA RESPUESTA

Sergio E. Recuenco, Talavera YM, Inagaki OC, Tejada EZ, Coaquira RB, Dianderas ICR, Riega P, Boltan GO.

9:00 - 9:15

THE INFLUENCE OF URBAN STRUCTURES ON FREE-ROAMING DOG ECOLOGY IN AREQUIPA, PERU

Ricardo Castillo-Neyra^{1,2}, Paz-Soldan VA^{3,4}, Buttenheim AM⁵, Vargas-Maquera M², Chipana-Ramos C², Naqira C², Levy MZ^{1,2} - ¹Department of Biostatistics and Epidemiology, University of Pennsylvania, Perelman School of Medicine, Philadelphia, Pennsylvania, United States of America, ²Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Perú, ³Department of Global Community Health and Behavioral Sciences, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana, United States, ⁴Facultad de Salud Pública y Administración, Universidad Peruana Cayetano Heredia, Lima, Perú, ⁵Department of Family and Community Health, University of Pennsylvania School of Nursing, Philadelphia, Pennsylvania, United States.

9:15 - 9:30

SOCIO-SPATIAL VACCINE UPTAKE PATTERNS ASSOCIATED WITH VACCINATION TENT LOCATION IN AREQUIPA, PERU

Ricardo Castillo-Neyra^{1,2}, Paz-Soldan VA^{3,4}, Buttenheim AM⁵, Borrini K², Toledo AM², Naqira C², Levy MZ^{1,2} - ¹Department of Biostatistics and Epidemiology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States of America, ²Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Perú, ³Department of Global

**11:30 - 11:45**

INCIDÊNCIA DE RAIVA EM MORCEGOS INSETÍVOROS E A RELAÇÃO COM CUIDADO PARENTAL, MUNICÍPIO DE SÃO PAULO, BRASIL

Adriana Ruckert da Rosa, Oliveira DC, Almeida MF, Martorelli LFA, Uieda W.

11:45 - 12:00

STUDIES ON BAIT PREFERENCE AND ACCEPTANCE IN EUROPEAN WOLVES (CANIS LUPUS LUPUS)

Graesser N¹, Ortmann S², Ad Vos², Böer M³ - ¹University of Veterinary Medicine Hannover, Germany, ²IDT Biologika GmbH, Dessau – Rosslau, Germany, ³Zoo Osnabrueck GmbH, Osnabrueck, Germany.

12:00 - 12:15

VIGILÂNCIA DA RAIVA SILVESTRE NO ESTADO DO AMAZONAS – 2010 A 2016.

Ana Cristina Rodrigues Campos¹, Reinehr NR¹, Cardoso DP¹ - ¹Fundação de Vigilância em Saúde-FVS/AM, Brasil.

12:15 - 12:30

EPIDEMIOLOGÍA DE LA RABIA EN CHILE 2005 - 2015

Veronica Yung- Institut Nacional de Salud Publica del Chile.

12:30 - 12:45

RISK MODELING OF SKUNK DISTRIBUTION AS A PROXY TO RABIES SPREAD IN SOUTHEASTERN ARIZONA, USA

Timothy P Algeo¹; Bergman, D²; Van Pelt, L²; Fink, M³; Fitzpatrick, K³; Chipman, RB¹ - ¹USDA, APHIS, Wildlife Services National Rabies Management Program. Concord, NH, ²USDA, APHIS, Wildlife Services. Phoenix, AZ, ³Arizona Department of Health Services. Phoenix, AZ.

12:45 - 13:00

AN EVALUATION OF TWO ORV STRATEGIES TARGETING RACCOONS IN SUBURBAN HABITATS IN THE US

Are R Berentsen, Patrick EM, Blass C, Wehner K, Dunlap B, Hicks B, Hale R, Chipman RB, VerCauteren KC

15:00 - 15:15

COMPARISON OF RAPID SAMPLING TECHNIQUES FOR RABIES DIAGNOSTIC BY PAN-RABIES TAQMAN REAL-TIME RT-PCR

René Edgar Condori-Condori, Smith T, Jackson F, Wadhwa A, Morgan C, Gallardo-Romero N, Li Y - Poxvirus and Rabies Branch, Division of High Consequence Pathogens and Pathology, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA.

15:15 - 15:30

DEVELOPMENT OF A HIGH-THROUGHPUT RABIES VIRUS NEUTRALIZATION ASSAY BASED ON GREEN FLOURESCENT PROTEIN (GFP) EXPRESSION

Lauren Greenberg, Burgado J, Olson V, Xianfu W, Satheshkumar PS - Poxvirus and Rabies Branch, Division of High-Consequence Pathogens and Pathology, Centers for Disease Control and Prevention, Atlanta, GA, USA

15:30 - 15:45

EVALUATION OF A QUALITY MANAGEMENT SYSTEM FOR RABIES TESTING

Xiaoyue Ma, Wallace R, Blanton J, Petersen BW, Orciari L, Yager P, Niezgod M, Franka R, Reynolds M, Li Y, Satheshkumar PS, Olson V - Centers for Disease Control and Prevention, Atlanta, United States

15:45 - 16:00

EVALUATIONS OF RABIES DFA INCONCLUSIVE SAMPLES USING PAN-RABIES REAL-TIME RT-PCR ASSAY LN34

Ashutosh Wadhwa, Condori-Condori RE, Wilkins K, LeMasters E, Yager P, Monroe B, Wallace R, Li Y - Poxvirus and Rabies Branch, Division of High Consequence Pathogens and Pathology, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA

16:00 - 16:15

EVALUATION OF THE RAPID FLUORESCENT FOCUS INHIBITION TEST TO SUPPORT RABIES VACCINE DEVELOPMENT

Luo P, Tatyana M Timiryasova, Singer A, Zheng L, Zedar R, Garg S, Brown M, Hu BT - Sanofi Pasteur, Discovery Drive, Swiftwater, PA, USA

16:15 - 16:30

INTRAVENOUS IMMUNOGLOBULIN THERAPY CONFOUNDS AN ANTE-MORTEM DIAGNOSIS OF HUMAN RABIES IN THE UNITED STATES

James A Ellison, Vora NM, Niezgod M, Smith TG, Yager PA, Orciari LA, Mauldin A, Satheshkumar OS, Olson VA Poxvirus and Rabies Branch, Division of High-Consequence Pathogens and Pathology, Centers for Disease Control and Prevention, Atlanta, GA, USA Field Services Branch, Division of State and Local Readiness, Office of Public Health Preparedness and Response, Atlanta, GA, USA

13:00 - 14:30

ALMOÇO / LUNCH / ALMUERZO

14:30 - 16:30**SESSÃO 7: DIAGNÓSTICO**

SESSION 7: DIAGNOSTIC

SESIÓN 7: DIAGNÓSTICO

Moderadores / Moderators / Moderadores:

Christine Fehlner-Gardiner, Juliana Castillo

14:30 - 14:45

Keynote: Evolution of diagnostic techniques for rabies

Christine Fehlner-Gardiner

16:30 - 17:00

COFFEE BREAK

17:00 - 18:00

SESSÃO DE PÔSTER 1

POSTER SESSION 1 / SESIÓN DE PÔSTER 1



QUARTA, 26 DE OUTUBRO

Wednesday, October 26

Miercoles, 26 de octubre

08:30 - 10:30

SESSÃO 8: VACINAS E CONTROLE DE VACINAS

SESSION 8: VACCINES AND VACCINE CONTROL

SESIÓN 8: VACUNAS Y CONTROL DE VACUNAS

Moderadores / Moderators / Moderadores:

Luis Lecuona, Neuza Gallina

8:30 - 8:45

Keynote: Rabies vaccines: evolution of rabies vaccines and what we still need

Neuza Gallina

8:50 - 9:00

HOMENAGEM À DRA. YOLANDE ROTIVEL

Noël Tordo

9:00 - 9:15

PERSISTENCE OF RABIES VIRUS-NEUTRALIZING ANTIBODIES AFTER VACCINATION OF RURAL POPULATION FOLLOWING VAMPIRE BAT RABIES OUTBREAK IN AUGUSTO CORREA, PARÁ, BRAZIL

Medeiros R¹, Jusot V², Houillon G², Rasuli A², Martorelli L³, Kataoka AP³, Ben Mechlia M⁴, Le Guern A-S⁴, Rodrigues L¹, Assef R¹, Maestri A¹, Lima R⁵, Bosch-Castells V², Noël Tordo⁴ - ¹Universidade Federal do Pará e Instituto Evandro Chagas, Belém-Pará, Brasil, ²Sanofi Pasteur, Lyon, France, ³Centro de Controle de Zoonoses, São Paulo, Brasil, ⁴Institut Pasteur, Paris, France, ⁵Secretaria de Saúde do Estado do Pará, Brasil

9:15 - 9:30

RABIES VETERINARY VACCINE MANUFACTURED IN BRAZIL. CONTROL TESTS AND STRAINS ANALYSIS

Ivanete Kotait¹, Carrieri ML², Fuches RMM², Gallina NMF² - ¹Venco Saúde Animal, Paraná/Brasil, ²Instituto Butantan, Secretaria de Estado da Saúde/São Paulo/Brasil

9:30 - 9:45

RABIES VACCINE STABILITY TESTING: VIRAL PARTICLE COUNTING BY NANOPARTICLE TRACKING ANALYSIS AND ANTIGENICITY MEASURED BY ELISA REFLECT IN VIVO NIH POTENCY

Françoise Guinet-Morlot, Clenet D, Moreno N, Riou P, Saulnier A - Sanofi Pasteur, Marcy l'Etoile, France

9:45 - 10:00

BAIT ACCEPTABILITY AND - HANDLING OF DOGS IN NAVAJO NATION (USA)

Bender S¹, Bergman D², Ad Vos³, Chipman R⁴ - ¹Navajo Nation Veterinary Program, USA, ²Arizona Wildlife Services, USA, ³IDT Biologika GmbH, GERMANY, ⁴National Rabies Management Program, USA

10:00 - 10:15

INDUSTRIAL PRODUCTION OF VETERINARY VACCINE USING CELL CULTURE IN PERFUSION SYSTEM

Aurelio Santo Zeferino¹, Sanson RK¹, Batista E¹, Martins PFL¹, Correia BL¹, Gimenez APL¹, Scheuer T¹, Salomão JC¹, Felix JC¹, Silva JC¹, Preto AA¹ - ¹Instituto de Tecnologia do Paraná - TECPAR- Curitiba/ Paraná-Brasil

10:15 - 10:30

CONSISTENT PRODUCTION OF A CHROMATOGRAPHICALLY PURIFIED VERO CELL RABIES VACCINE

Carlos Adolfo Palacios^{1,3}, Chiappini S^{1,3}, De Nichilo A^{1,3}, Nuguer E¹, Montiel D¹, Larghi OP², Parola AD^{1,3} - ¹Fundación Pablo Cassará, Saladillo 2452, Buenos Aires, Argentina; ²Laboratorio Pablo Cassará, Saladillo 2452, Buenos Aires, Argentina, ³Instituto de Ciencia y Tecnología Dr. César Milstein CONICET, Saladillo 2468, Buenos Aires, Argentina.

10:30 - 10:45

DESARROLLO DE VECTORES NO REPLICATIVOS PARA LA EXPRESIÓN IN VIVO DE LA PROTEÍNA G DEL VIRUS RÁBICO, COMO ESTRATEGIA PARA LA OBTENCIÓN DE VACUNAS

Débora Garanzini^{1,2}; Micucci, M.¹; Jurado, R.¹; Del Medico Zajac MP^{2,3}; Perez O.¹; Calamante G² - ¹INPB ANLIS Malbran CABA Bs As Rep Argentina, ²Inst de Biotecnología CICVyA INTA Castelar Bs As Rep. Argentina, ³CONICET Rep. Argentina

10:45 - 11:15

COFFEE BREAK

11:15 - 12:30

SESSÃO DE PÔSTER 2

POSTER SESSION 2 / SESIÓN DE PÔSTER 2

12:30 - 13:30

ALMOÇO / LUNCH / ALMUERZO

14:30-19:00

CITY TOUR

19:30- 22:30h

JANTAR TROPICAL E LEILÃO

TROPICAL DINNER AND AUCTION
CENA TROPICAL Y SUBASTA





QUINTA, 27 DE OUTUBRO

Thursday, October 27
Jueves, 27 de octubre

09:00 - 10:30

MESA REDONDA / ROUND TABLE / MESA REDONDA

Eliminação da Raiva Humana nas Américas pelas variantes caninas 1 e 2

Elimination of human rabies transmitted by dog variants 1 and 2

Eliminación de la rabia humana por variantes caninas 1 e 2

Coordenador	Eduardo Pacheco de Caldas
Histórico e situação nas Américas	Marco Antonio Vigilato
Situação do Peru	José Oswaldo Cabanillas
Situação da Bolívia	Marco Antonio Vigilato
Situação do Brasil	Eduardo Pacheco de Caldas
Q&A	

10:30 - 11:00

COFFEE BREAK

11:00 - 12:30

MESA REDONDA / ROUND TABLE / MESA REDONDA

Principais transmissores silvestres da Raiva Humana no Brasil: etologia e distribuição

Main wild reservoirs of rabies virus in Brazil: ecological aspects

Principales reservorios silvestres del virus de la rabia en Brasil: aspectos etológicos

Coordenador	Ivanete Kotait
Carnívoros Silvestres	Silvia Neri Godoy
Primatas não Humanos	Paulo H Gomes de Castro
Morcegos Hematófagos	Fernanda Atanaena Andrade
Raiva Humana transmitida por silvestres no Brasil	Silene Manrique Rocha
Q&A	

12:30-14:00

ALMOÇO / LUNCH / ALMUERZO

14:00- 15:30

MESA REDONDA / ROUND TABLE / MESA REDONDA

Raiva na Amazônia

Rabies in the Amazon Region

Rabia en la Región Amazónica

Coordenador	Eduardo Pacheco de Caldas
Situação do Peru	José Oswaldo Cabanillas
Situação da Colômbia	Angela Xiomara Castro Durán
Situação do Brasil	Lúcia Montebello
Q&A	

15:30 - 16:00

COFFEE BREAK

16:00 - 17:30

CONFERÊNCIA

Arboviroses emergentes e potenciais riscos para as Américas

Emergent Arboviruses and potential risks to the Americas

Arbovirosis emergentes y riesgos potenciales para las Américas

Conferencista	Pedro Vasconcelos
Moderadores	Charles E. Rupprecht, Noël Tordo
Q&A	

17:30 - 18:00

APRESENTAÇÃO DA PRÓXIMA RITA- CANADÁ

NEXT RITA PRESENTATION - CANADÁ

PRESENTACIÓN DE LA PRÓXIMA RITA- CANADÁ

18:30- 22:30

COQUETEL DE ENCERRAMENTO

CLOSING COCKTAIL

CÓCTEL DE CIERRE





Friday, October 28th

Coordinators - Charles E. Rupprecht and Ivanete Kotait



09:00 -12:30

PARADIGMS IN ANIMAL RABIES PREVENTION & CONTROL

- | | |
|---------------|--|
| 09:00 – 09:20 | INTRODUCTION – CHARLES E. RUPPRECHT |
| 09:20 – 09:40 | THE ROADMAP FOR CANINE RABIES ELIMINATION IN LATIN AMERICA – MARCO A. VIGILATO |
| 09:40 – 10:00 | EXAMPLES OF SUCCESSFUL RAPID DOG VACCINATION PROGRAMS - FREDERICH LOHR |
| 10:00 – 10:20 | RELEVANT DIAGNOSTICS FOR CANINE RABIES ELIMINATION – RICHARD FRANKA |
| 10:20 – 10:40 | COFFEE |
| 10:40 – 11:00 | UTILITY OF ORAL CANINE VACCINATION IN PREVENTION PROGRAMS - AD VOS |
| 11:00 – 11:20 | ROLE OF SEROLOGY IN ANIMAL HEALTH ASSESSMENT - SUSAN MOORE |
| 11:20 – 11:50 | JUST VACCINATE ALL THE DOGS...IT AIN'T THAT EASY - RYAN M WALLACE /JESSE BLANTON |
| 11:50 – 12:20 | ROUND TABLE Q&A |

LUNCH / ALMOÇO

14:00 -17:30

PARADIGMS IN HUMAN RABIES PREVENTION & CONTROL

- | | |
|---------------|---|
| 01:30 – 01:50 | INTRODUCTION – CHARLES E. RUPPRECHT |
| 01:50 – 02:10 | USE OF PRE-EXPOSURE VACCINATION IN PERU – SERGIO RECUENCO |
| 02:10 – 02:30 | ISSUES IN BRAZIL – RICARDO SIQUEIRA CUNHA |
| 02:30 – 02:50 | NEW ANTIVIRALS AND APPROACH FOR INTERVENTION- NOEL TORDO |
| 02:50 – 03:10 | COFFEE |
| 03:10 – 03:30 | TREATMENT UPDATE – RODNEY WILLOUGHBY |
| 03:30 – 04:00 | ROUND TABLE Q&A |



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