



RITA 2016

23 a 28 de outubro
Rabies in the Americas
Belém/PA - Brazil



RITA 2016 PROGRAM

Sunday, October 23

09:00 - 16:00h → Registration

14:00- 16:30h → Rabies challenge: Photography Competition (Mangal das Garças)

19:00-19:30h → Opening Ceremony

○ Representatives:

- Health Ministry (MS)
- Secretariat of Health Surveillance (SVS)
- Public Health State Office (SESPA)
- Ministry of Agriculture, Livestock and Food Supply (MAPA)
- Foot-and-mouth Disease Pan-American Center Director/OPAS
- Evandro Chagas Institute Director (IEC)
- XXVII RITA Organizing Committee President
- International Committee President

19:30- 21:30 → Welcome reception and cocktail

Monday , October 24

08:00-16:00h Registration

08:30- 10:30h **Session 1: Human Rabies, Prophylaxis and Treatment**

Moderators: Rosely Oliveira , Noël Tordo

8:30-8:45h- Keynote: *Human rabies, treatment and prophylaxis with emphasis to the endemic countries* Noël Tordo

9:00-9:15 h-BARRIERS TO INNOVATION IN HUMAN RABIES
PROPHYLAXIS AND TREATMENT: A CAUSAL ANALYSIS OF INSIGHTS
FROM KEY OPINION LEADERS AND LITERATURE -Van de Burgwal LHM,
Anne MG Neevel, Pittens CACM, Osterhaus ADME, Rupprecht CE, Claassen E

9:15-9:30h-ESTUDO DE CASOS 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**¹, Caldas EP¹, Castro APB¹, Rocha SM¹, Vargas A¹.- ¹Secretaria de
Vigilância em Saúde (SVS), Ministério da Saúde do Brasil (MS)

9:30-9:45 h- HEALTH CARE SEEKING BEHAVIORS OF PERSONS
POTENTIALLY EXPOSED TO RABIES VIRUS AFTER IMPLEMENTATION



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OF AN INTEGRATED ANIMAL BITE CASE MANAGEMENT PROGRAM, HAITI 2014–2015- **Melissa D Etheart**¹, Kligerman M², Augustin PD³, Monroe B⁴, Fleurinord L³, Millien M³, Crowdis K⁵, Fenelon N⁶, Wallace RM⁴- ¹United States Centers for Disease Control and Prevention, Port-au-Prince, Haiti, ²Stanford University - School of Medicine, Palo Alto, California, USA, ³Ministry of Agriculture, Natural Resources and Rural Development, Haiti, ⁴United States Centers for Disease Control and Prevention, Poxvirus and Rabies Branch, Atlanta, Georgia, ⁵Christian Veterinary Mission, Port-au-Prince, Haiti, ⁶Pan American Health Organization, Haiti

9:45-10:00 h- EFFICACY OF HUMAN MONOCLONAL ANTIBODIES (CL 184) AGAINST DIVERSE BAT RABIES VIRUS VARIANTS IN A HAMSTER MODEL - **Richard Franka**¹, Carson WC¹, Ellison JA¹, Taylor TS², Smith TG¹, Kuzmina NA³, Kuzmin IV³, Marissen WE⁴, Rupprecht CE⁵-¹Centers for Disease Control and Prevention, Poxvirus and Rabies Branch, Atlanta, Georgia, USA, ²Quillen College of Medicine, East Tennessee State University, Johnson City, TN, USA, ³University of Texas Medical Branch, Galveston, Texas, USA, ⁴Janssen Vaccines, Leiden, Netherlands ⁵LYSSA LLC, Cummings, Georgia, USA

10:00-10:15 h- IMPLEMENTACIÓN DE PROFILAXIS POST-EXPOSICIÓN ANTIRRÁBICA HUMAN EN HAITÍ – **Sergio E Recuenco**¹, Fenelon N^{1,2}, Pompei J.C¹ Vigilato M.A¹ - ¹PANAFTOSA-Organización Panamericana de la Salud/Organización Mundial de la Salud, ²Ministerio de Salud Pública de Haití

10:15-10:30 h- CHARACTERIZATION AND PROPHYLAXIS AFTER EXPOSURE TO HUMAN RABIES IN EASTERN AMAZON, STATE OF PARÁ, BRAZIL BETWEEN 2000 AND 2014 – **Nailde de Paula Silva**^{1,2*}, Saraiva EA¹, Santos KS³, Araújo IM¹, Silva MB¹, Nascimento KKG¹, Guimarães RJPS³, Abel I¹. ¹Laboratório de Epidemiologia e Geoprocessamento (EpiGeo), Programa de Pós-Graduação em Saúde Animal na Amazônia, Universidade Federal do Pará (UFPA), Castanhal, Pará, Brasil. ²Coordenação de Vigilância em Saúde de São João da Ponta, PA., São João da Ponta, Pará, Brasil, ³Laboratório de Geoprocessamento do Instituto Evandro Chagas (IEC).Levilândia, , Ananindeua, PA, Brasil.

10:30- 11:00h Coffee break

11:00-13:00h **Session 2: Pathogenesis and Immunology**

Moderators: Alan Jackson, Jane Megid
11:00-11:15h Keynote: *Rabies virus pathogenesis and immunity..what happens?* Alan Jackson

11:30-11:45 h- 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 h- 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 Fernandes**¹ - 1. Instituto Pasteur, São Paulo, Brasil; ². Laboratório de Patologia de Moléstias Transmissíveis da Faculdade de Medicina da Universidade de São Paulo, Departamento de Patologia, São Paulo, Brasil.

12:00-12:15 h- EFFECTS OF BUFOTENINE ON MICE INFECTED WITH



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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 h- 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 J^{1*} - ¹UNESP- Univ. Estadual Paulista- Faculdade de Medicina Veterinária e Zootecnia, ²NeoGene- AC Camargo Cancer Center- São Paulo, SP, Brazil

12:30-12:45 h- NEUROINVASIVIDADE, NEUROVIRULÊNCIA E NEUROPATHOGENICIDADE 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, Iamamoto K², Mori CMC¹, **Enio Mori**² - ¹ Faculdade de Medicina Veterinária e Zootecnia da Universidade de São Paulo, São Paulo, Brasil ² Instituto Pasteur, São Paulo, Brasil

12:45-13:00 h- IMUNOPATOLOGIA EXPERIMENTAL DO VÍRUS DA RAIVA COM VARIANTES ANTIGÊNICAS 2 E 3 –**Livia Medeiros Neves Casseb**¹; Coelho TFSB¹; Franco ECS¹; Rosa EST¹; Pereira AS¹; Quaresma JAS²; Vasconcelos PFC^{1,2} - ¹Instituto Evandro Chagas, Ananindeua, Pará, Brasil, ²Universidade Estadual do Pará

13:00-14:30h Lunch

14:30-15:00h **George Baer Latin American Investigator Award**

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, ^b Office of Animal Health, National Service of Agricultural Health, Ministry of Agriculture, Lima, Peru, ^{a, c} Medical Research Council- University of Glasgow Centre for Virus Research, Glasgow, United Kingdom

15:00-16:30h **Session 3: Epidemiology and Surveillance**

Moderators: Charles E. Rupprecht Pedro Vasconcelos

15:00-15:15h Keynote: *Evolution on the epidemiology and surveillance of rabies* Charles E Rupprecht

15:15-15:30 h- GEOGRAPHIC VISUALIZATION OF RABIES

SURVEILLANCE DATA IN THE UNITED STATES, 2014 - **Benjamin P**

Monroe, Birhane MG, Blanton J, Yager P, Wadhwa 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 h- 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



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Saúde (PANAFTOSA – OPAS/OMS)

15:45-16:00 h- DYNAMICS OF RABIES IN THE CARIBBEAN - Janine FR

Seetahal¹, Vokaty A², Pradel J³, Louison B⁴, Van Sauers 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, Nates, France; ⁹The Wistar Institute, Philadelphia, USA

16:00-16:15 h-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 h-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- 17:00h Coffee break

17:00- 18:30h Session 4: Molecular Epidemiology

Moderadores/Moderators: Juan Montano, Daniel G Streicker
17:00-17:15h Keynote: Viral evolution in rabies, host shifts and emergence Daniel G Streicker

17:15-17:30 h-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, W⁷⁻¹

Institute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, Glasgow, Scotland, UK ² MRC-University of Glasgow Centre for Virus Research, Glasgow, Scotland, UK ³Odum School of Ecology, University of Georgia, Athens, GA, USA ⁴ Institute of Vertebrate Biology, Czech Academy of Sciences, v.v.i., Květná Brno, Czech Republic ⁵ Department of Evolutionary Ecology, Max Planck Institute for Evolutionary Biology, Ploen, Germany ⁶ Poxvirus and Rabies Branch, Division of High Consequence Pathogen and Pathology, Centers for Disease Control and Prevention, Atlanta, GA, USA ⁷ Association for the Conservation and Development of Natural Resources, Lima, Peru ⁸ Instituto Nacional de Salud, Ministry of Health of Peru, Lima, Peru

17:30-17:45 h- 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,



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17:45-18:00 h- COMPLETE GENOMES OF EIGHT BRAZILIAN LINEAGES OF RABIES VIRUS –**Rafael de Novaes Oliveira**¹, 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 h- 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.

Tuesday, October 25

08:30- Session 5: Rabies in Domestic Animals

10:30h

Moderadores:

Veronica
Gutierrez,

Laura Robinson

8:30-8:45h Keynote: *Global situation of animal rabies*

Veronica
Gutierrez

8:45-9:00h- 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

9:00-9:15h- THE INFLUENCE OF URBAN STRUCTURES ON FREE-ROAMING DOG ECOLOGY IN AREQUIPA, PERU - **Ricardo Castillo-Neyra**^{1,2}, Paz-Soldan VA^{3,4}, Bутtenheim AM⁵, Vargas-Maquera M², Chipana-Ramos C², Naquira 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

9:15-9:30h- SOCIO-SPATIAL VACCINE UPTAKE PATTERNS ASSOCIATED WITH VACCINATION TENT LOCATION IN AREQUIPA, PERU -

Ricardo¹**Castillo-Neyra**², Paz-Soldan VA^{3,4}, Bутtenheim AM⁵, Borrini K², Toledo AM², Naquira 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



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and Community Health, University of Pennsylvania School of Nursing, Philadelphia, Pennsylvania, United States

9:30-9:45h- UTILIZING THE STEP WISE APPROACH TOWARD RABIES ELIMINATION IN GUATEMALA - **Emily G Pieracci**¹, 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

9:45-10:00h- 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 I and Díaz Quiñones A. Laboratorio de Rabia. Departamento de Virología. Instituto de Diagnóstico y Referencia Epidemiológicos. Ciudad de México. México.

10:00-10:15h- 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

10:15-10:30h- COULD WE SEE AN END TO HUMAN DEATHS FROM CANINE RABIES BY 2030? – **Louise H Taylor**¹, Nel LH^{1,2} - ¹ Global Alliance for Rabies Control, Kansas, USA, ²Department of Microbiology and Plant Pathology, University of Pretoria, Pretoria, South Africa

10:30- 11:00h

Coffee break

11:00-13:00h

Session 6: Wildlife Rabies

Moderators:

Richard

Sergio

Chipman,

Recuenco

11:00- 11:15h Keynote: *Wild animal rabies: past, present and future perspectives*

Richard

Chipman

11:30- 11:45h- 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- 12:00h- STUDIES ON BAIT PREFERENCE AND ACCEPTANCE IN EUROPEAN WOLVES (CANIS LUPUS LUPUS) - Graesser N¹, Ortmann S², **Ad Vos**², Böer M³ - ¹University of Veterinary Medicine Hannover, GERMANY, ²IDT Biologika GmbH, Dessau – Rosslau, GERMANY, ³Zoo Osnabrueck GmbH, Osnabrueck, GERMANY

12:00- 12:15h- VIGILÂNCIA DA RAIVA SILVESTRE NO ESTADO DO AMAZONAS – 2010 A 2016 - **Ana Cristina Rodrigues Campos**¹, Reinehr NR¹, Cardoso DP¹ - ¹Fundação de Vigilância em Saúde-FVSVAM, Brasil



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12:15- 12:30h- EPIDEMIOLOGÍA DE LA RABIA EN CHILE 2005-2015. –
Veronica Yung– Institut National de Salud Publica del Chile

12:30- 12:45h- RISK MODELING OF SKUNK DISTRIBUTION AS A PROXY
TO RABIES SPREAD IN SOUTHEASTERN ARIZONA, USA - **Timothy P Algeo**¹;
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- 13:00h- 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

13:00-14:30h

Lunch

14:30-16:30h **Session 7: Diagnostic**

Moderators: Christine Fehlner-Gardiner, Juliana Castilho

14:30-14:45h Keynote: *Evolution of diagnostic techniques for rabies* Christine Fehlner-Gardiner

15:00-15:15h- 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.

15:15-15:30h- 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

15:30-15:45h- EVALUATION OF A QUALITY MANAGEMENT SYSTEM FOR
RABIES TESTING - **Xiaoyue Ma**, Wallace R, Blanton J, Petersen BW, Orciari L, Yager P,
Niezgoda M, Franka R, Reynolds M, Li Y, Satheshkumar PS, Olson V - Centers for Disease
Control and Prevention, Atlanta, United States

15:45-16:00h- 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

16:00-16:15h- 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

16:15-16:30h- INTRAVENOUS IMMUNOGLOBULIN THERAPY CONFOUNDS
AN ANTE-MORTEM DIAGNOSIS OF HUMAN RABIES IN THE UNITED



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STATES - James A Ellison, Vora NM, Niezgoda 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

16:30- 17:00h

Coffee break

17:00-18:00h

Poster Session

Wednesday, October 26

08:30-10:30h Session 8: Vaccines and Vaccine Control

Moderators: Luis Lecuona Neuzha Gallina

8:30-8:45h Keynote: *Rabies vaccines : evolution of rabies vaccines and what we still need* Neuzha Gallina

8:50 -9:00h HOMENAGEM À DRA. YOLANDE ROTIVEL – Noël Tordo

9:00 -9:15h- 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 Mechli M⁴, Le Guern A-S⁴, Rodrigues L¹, Assef R¹, Maestri A¹, Lima R⁵, Bosch-Castells V², **Noël Tordo**⁴ - 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 -9:30h- RABIES VETERINARY VACCINE MANUFACTURED IN BRAZIL. CONTROL TESTS AND STRAINS ANALYSIS –**Ivanete Kotait**¹, Carrieri ML², Fuches RMM², Gallina NMF² - ¹Venco Saúde Animal, Paraná/Brasil, ²Instituto Butantan, Secretaria de Estado da Saúde/São Paulo/Brasil

9:30 -9:45h- 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 -10:00h- BAIT ACCEPTABILITY AND – HANDLING OF DOGS IN NAVAJO NATION (USA) - Bender S¹, Bergman D², **Ad Vos**³, Chipman R⁴ - ¹Navajo Nation Veterinary Program, USA, ²Arizona Wildlife Services, USA, ³IDT Biologika GmbH, GERMANY, ⁴National Rabies Management Program, USA

10:00 -10:15h- INDUSTRIAL PRODUCTION OF VETERINARY VACCINE USING CELL CULTURE IN PERFUSION SYSTEM - **Aurelio Santo Zeferino**¹, 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 -10:30h- CONSISTENT PRODUCTION OF A



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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 [UTF-8?]â€“ CONICET. Saladillo 2468, Buenos Aires, Argentina.

10:30 -10:45h- 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- 11:15h Coffee break

11:15-12:30h **Poster Session**

12: 30 -13:30h Lunch

13:30-19:00h City tour

19:30- 22:30h Tropical Dinner and auction

Thursday , October 27

09:00- 10:30h Round table **Elimination of human rabies transmitted by dog variants 1 and 2**

Coordinator	Eduardo Pacheco de Caldas
History and Situation in the Americas	Marco Antonio Vigilato
Situation in Peru	José Oswaldo Cabanillas
Situation in Bolivia	Marco Antonio Vigilato
Situation in Brazil	Eduardo Pacheco de Caldas
	Q&A

10:30- 11:00h Coffee break

11:00- 12:30h Round table **Main wild reservoirs of rabies virus in Brazil: ecological aspects**

Coordinator	Ivanete Kotait
Wild carnivores: biology, behavior and distribution	Silvia Neri Godoy
Non human primates	Paulo H Gomes de Castro
Haematophagous bats	Fernanda Atanaena Andrade
Human rabies transmitted by wild animals	Silene Manrique Rocha
	Q&A



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12:30-14:00h Lunch

14:00- 15:30h Round table **Rabies in the Amazon Region**

Coordinator Eduardo Pacheco de Caldas

Situation in Peru José Oswaldo Cabanillas

Situation in Colombia Angela Xiomara Castro Durán

Situation in Brazil Lúcia Montebello

Q&A

15:30- 16:00h Coffee break

16:00 - 17:30h Conferência **Emergent Arboviruses and potential risks to
the Americas**

Lecturer Pedro Vasconcelos

Moderators Charles E. Rupprecht

Noël Tordo

Q&A

17:30- 18:00h **Next Rita Presentation – Canadá**

18:30- 22:30h Closing cocktail



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WEBINAR

Friday, October 28th

Coordinators- Charles E. Rupprecht and Ivanete Kotait

09:00 -12:30 Paradigms in Animal Rabies Prevention & Control

09h00 – 09h20AM - Introduction – Charles E. Rupprecht

09h20 – 09h40AM -The roadmap for canine rabies elimination in Latin America
–Victor Del Rio

09h40 – 10h00AM - Examples of successful rapid dog vaccination programs -
Frederich Lohr

10h00 – 10h20AM - Origami and the Fine Art of Taming Rabies – Richard
Franka

10h20 – 10h40AM - COFFEE

10h40 – 11h00AM - Utility of oral canine vaccination in prevention programs -
Ad Vos

11h00 – 11h20AM - Role of serology in animal health assessment - Susan
Moore

11h20 – 11h50AM -Just vaccinate all the dogs...It ain't that easy - Ryan M
Wallace /Jesse Blanton

11h50 – 12h20PM – Round table Q&A

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Almoço/Lunch

14:00 -17:30 Paradigms in Human Rabies Prevention & Control

01h30 – 01h50PM - Introduction – Charles E. Rupprecht

01h50 – 02h10PM - Use of pre-exposure vaccination in Peru – Sergio Recuenco

02h10 – 02h30PM - Issues in Brazil – Ricardo Siqueira Cunha

02h30 – 02h50PM - New antivirals and approach for intervention- Noël Tordo

02h50 – 03h10PM - COFFEE

03h10 – 03h30PM - Treatment update – Rodney Willoughby

03h30 – 04h00PM - Round table Q&A

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