Virus Reviews and Research

Journal of the Brazilian Society for Virology

Volume 19, September/October 2014, Supplement 2

Annals of the XXV Brazilian Congress of Virology & IX Mercosur Meeting of Virology
September/October, 28 - 01, 2014, Ribeirão Preto Convention Center, Ribeirão Preto, São Paulo, Brazil

Editors
Edson Elias da Silva
Fernando Rosado Spilki

BRAZILIAN SOCIETY FOR VIROLOGY BOARD OF DIRECTORS
(2013-2014)

Officers
President: Dr Eurico de Arruda Neto
Vice-President: Dr Bergmann Morais Ribeiro
First Secretary: Dr Mauricio Lacerda Nogueira
Second Secretary: Dra Luciana Jesus da Costa
First Treasurer: Dr Luis Lamberti Pinto da Silva
Second Treasurer: Dra Clarice Weis Arns
Executive Secretary: Dr Fabricio Souza Campos

Area Representatives

Basic Virology (BV)
Dra Paula Rahal, UNESP (2013 – 2014)
Dr Davis F. Ferreira, UFRJ (2013 – 2014)

Environmental Virology (EV)
Dra Célia Regina Barardi, UFSC (2013 – 2014)
Dr Fernando Rosado Spilki, Feevale (2013 – 2014)

Human Virology (HV)
Dr Luiz Tadeu Figueiredo, USP-RP (2013 – 2014)

Immunobiologicals in Virology (IV)
Dra Sílvia Cavalcanti, UFF (2013 – 2013)
Dr Edson Elias da Silva, Fiocruz (2013 – 2014)

Plant and Invertebrate Virology (PIV)
Dr Paulo Brioso, UFRJ (2013 – 2014)
Dr Tatsuya Nagata, UNB (2013 – 2014)

Veterinary Virology (VV)
Dr Paulo Brandão, USP (2013 – 2014)
Dra Rita Cubel, UFF (2013 – 2014)

Fiscal Councilors
Dra Maria Luisa Barbosa
Dra Viviane Fongaro Botosso
Dra Maria Angela Orsi

Address
Universidade Feevale, Instituto de Ciências da Saúde
Estrada RS-239, 2755 - Prédio Vermelho, sala 205 - Laboratório de Microbiologia Molecular
Bairro Vila Nova - 93352-000 - Novo Hamburgo, RS - Brasil
Phone: (51) 3586-8800
E-mail: F.R.Spiik - fernandors@feevale.br
http://www.vrrjournal.org.br
**Organizing Committee**
Bergmann Morais Ribeiro, UNB
Célia R. M. Barardi, UFSC
Clarice Weis Arns, UNICAMP
Davis Fernandes Ferreira, UFRJ
Edson Elias da Silva, Fiocruz
‘Chairman of the Committee’ Eurico de Arruda Neto, USP
Fabrício Souza Campos, UFRGS
Fernando Rosado Spilki, Universidade FEEVALE
Francisco Murilo Zerbini, UFV
Luciana Jesus Costa, UFRJ
Luis Lamberti Pinto da Silva, USP
Luiz Tadeu Figueiredo, USP
Maria Angela Orsi, LANAGRO
Maria Luisa Barbosa, Instituto Adolfo Lutz
Maurício Lacerda Nogueira, FAMERP
Nancy Bellei, UNIFESP
Paula Rahal, UNESP
Paulo Sergio Torres Brioso, UFRRJ
Paulo Eduardo Brandão, USP
Rita de Cássia Nasser Cubel Garcia, UFF
Silvia Maria Baeta Cavalcanti, UFF
Tatsuya Nagata, UNB
Viviane Fongaro Botosso, Instituto Butantan

**Hélio Gelli Pereira Award Committee**
Fernando Rosado Spilki
Luciana Barros de Arruda
Luis Lamberti Pinto da Silva
Mauricio Lacerda Nogueira
Financial Support

CAPES
Coordenação de Aperfeiçoamento de Pessoal de Nível Superior

CNPQ
Conselho Nacional de Desenvolvimento Científico e Tecnológico

FAPESP
Fundação de Amparo à Pesquisa do Estado de São Paulo

Exhibitors

QIAGEN
SARSTEDT
SÍNTESE
SOTELAB
VECOFLOW

Sponsors

Silver Sponsorship - LOBOV
Bronze Sponsorship - ROCHE and SIGMA ALDRICH

Organizers

Office Marketing Eventos

General Information

Secretary Office Hours
September, 28th - 8am - 8pm
September, 29th - 7am - 7:30pm
September, 30th - 7am - 7:30pm
October, 1st - 7am - 6pm

Name Badge
Name badges will be required for access in all activities, including lunch.

Media Desk (for lecturers only)
The media desk will be open as scheduled for the secretary office.
Data - files with presentations - must be delivered at the media desk at least 2 hours before the scheduled time for the presentation. Please note that the use of personal computers by presenters will not be allowed.

Lounge Area
A lounge area will be available for lecturers, invited persons and SBV staff.

Certificates
Certificates of attendance will be available online at www.sbv.org.br 15 days after the end of the meeting.

Travel Agency
FLYTOUR is the official tour operator of the XXV Brazilian Congress of Virology.
Booking and information: carol.wer@flytour.com.br
(16) 3024.3900

Poster Presentations
The posters must be exposed from 1pm until the end of the session, and then removed.

Poster Session 1: September 29th, 6:30-8:30 pm
- Human Virology
- Immunobiologicals in Virology
- Plant and Invertebrate Virology

Poster Session 2: September 30th, 6:30-8:30 pm
- Basic Virology
- Environmental Virology
- Veterinary Virology
Room Turquesa
Satellite Workshop 1 - Enteric viruses
1. Replication and virus-cell interaction of Norovirus - Ian Goodfellow, University of Cambridge, UK
2. Kobuvirus (Aichivirus B) infection in Brazilian cattle herds - Amauri Alcindo Alfieri, Londrina State University, Londrina, Paraná, PR, Brazil
3. Norovirus and sapovirus in day-care children – Divina das Dores de Paula Cardoso, Federal University of Goiás, Goiânia, GO, Brazil
4. Enteric viruses in drinking water, Southern Brazil – Fernando Rosado Spilki, Feevale University, Novo Hamburgo, RS, Brazil (Chair)

Room Agata
Satellite Workshop 2 - Next-generation sequencing of viral genomes
1. Discovery of novel viruses from insects and plants - Fernando Lucas de Melo, University of Brasília, Brasília, DF, Brazil
2. Next generation sequencing as a tool for discovering and monitoring arboviruses – Renata Dezengrini Slhessarenko, Federal University of Mato Grosso, Cuiabá, MT, Brazil
3. Next generation sequencing technologies for genome and transcriptome studies of Porcine Circovirus - João Pessoa Araújo Júnior, São Paulo State University, Botucatu, SP, Brazil
4. Next generation sequencing and metagenomic virome analysis from environmental samples – Tatsuya Nagata, University of Brasília, Brasília, DF, Brazil (Chair)

Room Ónix
Satellite Workshop 3 - Respiratory viruses: from bench to trench
1. Update on newcastle disease virus – Muhammad Munir - The Pirbright Institute, UK
2. Coronavirus in bats: what is new? - Edison Luiz Durigon, University of São Paulo, São Paulo, SP, Brazil (Chair)
3. Targeting cell division cycle 25 homolog B to regulate influenza virus replication - Ana Claudia Trocoli Torrecillas, Federal University of São Paulo, São Paulo, SP, Brazil
4. Respiratory viral infections in immunosuppressed patients - Meri Bordignon Nogueira, Federal University of Paraná, Curitiba, PR, Brazil

Room Topázio
Satellite Workshop 4 - Virology nucleus AUGM (Asociación de Universidades Grupo Montevideo)
1. An overview of the mission and priorities of the Molecular Virology Nucleus (AUGM) - Juan Daniel Claus, Coordinator of AUGM, Universidad Nacional del Litoral, Santa Fé, Argentina
2. Molecular biology of baculovirus: basic and applied studies - Víctor Romanowski, Universidad Nacional de La Plata, La Plata, Argentina
3. State-of-art of viral vector-borne zoonoses in Argentina - Marta Contigiani, Universidad Nacional de Córdoba, Córdoba, Argentina
4. Mechanism of carcinogenesis associated with human papillomavirus infection: role of the domains of protein PDZ interaction - Daniela Gardiol, Universidad Nacional de Rosario, Rosario, Argentina
5. Detection of human papillomavirus and co-risk factors for the development of cervical cancer in Paraguay - Laura Mendoza Torres, Universidad Nacional de Asunció, Asunció, Paraguay
6. Development of molecular tools for identifying viral - Adriana Giri, Universidad Nacional de Rosario, Rosario, Argentina
7. Emerging viruses in Uruguay: some yes and others no - Juan Arbiza, Universidad de la República, Montevideo, Uruguay
8. Distribution of vaccinia virus in the South America - Erna Geessien Kroon, Federal University of Minas Gerais, Belo Horizonte, MG, Brazil
9. Recent developments in recombinant viral vaccines for veterinary use in Brazil - Eduardo Furtado Flores, Federal University of Santa Maria, Santa Maria, RS, Brazil
10. Coronavirus in wild birds in Brazil - Clarice Arns, Campinas State University, Campinas, SP, Brazil (Chair)

4:00 pm - 4:30 pm Coffee break

7:00 pm - 9:00 pm Room Esmeralda
Opening Ceremony Keynote conference:
- Infections of neurons by herpesviruses: How do they do that?
  Lynn Enquist, Princeton University, Princeton, NJ, USA

9:00 pm - 11:00 pm Cocktail reception and Visit to Exhibits
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Activity</th>
</tr>
</thead>
</table>
| 8:00 am - 9:00 am | Room Ágata  
**Mini-course 1:** Introduction to viral replication  
- Luciana Jesus da Costa, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil |
| Room Turquesa |  
**Mini-course 2:** Proteomic applications in virology  
- Alessandra Vidotto, Medical School of São José do Rio Preto, São José do Rio Preto, SP, Brazil |
| Room Topázio |  
**Mini-course 3:** Molecular diagnosis in virology  
- Roberta Bronzoni, Federal University of Mato Grosso, Sinop, MT, Brazil, and Luciano Kleber de Souza Luna, University of São Paulo, Ribeirão Preto, SP, Brazil |
| Room Ônix    |  
**Mini-course 4:** Viral phylogeny and sequence analysis  
- Camila Romano, University of São Paulo, São Paulo, SP, Brazil |
| 9:00 am - 10:30 am | Oral presentations: session 1 to 4  
- SESSION 1 – Human Virology I - Room Topázio  
- SESSION 2 – Plant and Invertebrate I - Room Turquesa  
- SESSION 3 – Veterinary Virology I - Room Ônix  
- SESSION 4 – Environmental Virology - Room Ágata |
| 10:30 am - 11:00 am | Coffee-break and Visit to Exhibits |
| Room Esmeralda | Conference 1:  
- Host cell restriction factors for HIV-1 replication  
Jeremy Luban, University of Massachusetts Medical School, Worcester, USA;  
Luciana Jesus da Costa, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil (Chair) |
| 12:00 pm - 2:00 pm | Lunch-break and Visit to Exhibits |
| Room Esmeralda | Conference 2:  
- Emerging and re-emerging virus infections in pigs  
Tanja Opriessnig, University of Edinburgh, Scotland, UK and Iowa State University, USA;  
Paulo Eduardo Brandão, University of São Paulo, São Paulo, SP, Brazil (Chair) |
| 3:00 pm - 4:30 pm | Oral presentations: session 5 to 8  
- SESSION 5 – Basic Virology I - Room Ágata  
- SESSION 6 – Human Virology II - Room Topázio  
- SESSION 7 – Plant and Invertebrate Virology II - Room Turquesa  
- SESSION 8 – Veterinary Virology II - Room Ônix |
| 4:30 pm - 5:00 pm | Coffee-break and Visit to Exhibits |
| 5:00 pm - 6:30 pm | Oral presentations: session 9 to 12  
- SESSION 9 – Human Virology III - Room Topázio  
- SESSION 10 – Basic Virology II - Room Ágata  
- SESSION 11 – Veterinary Virology III - Room Ônix  
- SESSION 12 – Immunobiologicals in Virology - Room Turquesa |
| 6:30 pm - 8:30 pm | Poster Session 1 and Visit to Exhibits / Social Mixer |
| 8:00 am - 9:00 am | Room Ágata  
**Mini-course 1:** Introduction to viral replication  
- Luciana Jesus da Costa, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil |
| Room Turquesa |  
**Mini-course 2:** Proteomic applications in virology  
- Alessandra Vidotto, Medical School of São José do Rio Preto, São José do Rio Preto, SP, Brazil |
| Room Topázio |  
**Mini-course 3:** Molecular diagnosis in virology  
- Roberta Bronzoni, Federal University of Mato Grosso, Sinop, MT, Brazil, and Luciano Kleber de Souza Luna, University of São Paulo, Ribeirão Preto, SP, Brazil |
| Room Ônix    |  
**Mini-course 4:** Viral phylogeny and sequence analysis  
- Camila Romano, University of São Paulo, São Paulo, SP, Brazil |
### Round Tables 1 to 4

**Tuesday, September 30**

#### Room Topázio
**Round Table 1 - Veterinary Virology - Challenges and progress in disease control**
1. Challenges in monitoring avian influenza virus - **Helena Lage Ferreira**, University of São Paulo, Pirassununga, SP, Brazil (Chair)
2. Viruses in wild birds with special reference to avian paramyxoviruses – **Muhammad Munir**, The Pirbright Institute, UK
3. Porcine epidemic diarrhea virus - **Tanja Opriessnig**, University of Edinburgh, Scotland, UK
4. Update on FMDV - **Rossana Allende**, Pan American Foot-and-Mouth Disease Center (Panaftosa), RJ, Brazil

#### Room Ónix
**Round Table 2 - Plant and Invertebrate Virology - Viral metagenomics**
1. Polydnavirus: diversity, genome organization, ecological implications and biotechnological potential: CIPDV as a case study - **Fernando Luis Cônsoli**, University of São Paulo, São Paulo, SP, Brazil
2. Genomic analysis of new baculoviruses isolated in Brazil - **Daniel Mendes Pereira Araisson Araujo**, University of Brasília, Brasília, DF, Brazil
3. Bean and associated weeds ssDNA virome – **Simone Ribeiro**, EMBRAPA CENARGEN, Brasília, DF, Brazil
4. Cell modulation factors are carried along structural proteins in the AgMNPV-2D budded and occluded virions - **Carla Torres Bracòni**, University of São Paulo, São Paulo, SP, Brazil
Chair: **Bergmann Morais Ribeiro**, University of Brasília, Brasília, DF, Brazil

#### Room Ágata
**Round Table 3 - Environmental Virology - Advances in environmental virology**
1. Standard Methods to concentrate viruses from freshwater samples - **Garland Shay Fout**, U. S. Environmental Protection Agency, Cincinnati, OH, USA
2. Avian parvoviruses as markers for environmental contamination – **Silvia Bofill-Mass**, University of Barcelona, Barcelona, Spain
3. Virus inactivation in sludge – **Maria Elisa Magri**, Federal University of Lavras, Lavras, MG, Brazil
4. Virus disinfection in drinking, reuse and sea waters - **Célia Regina Monte Barardi**, Federal University of Santa Catarina, Florianópolis, SC, Brazil
Chair: **Fernando Rosado Spilki**, University Feevale, Novo Hamburgo, RS, Brazil

#### Room Turquesa
**Round Table 4 - Basic Virology - HIV-host cell interaction**
1. HIV replication mechanisms - **Jeremy Luban**, University of Massachusetts Medical School, USA
2. Diverse mechanisms involved in translation initiation of HIV-1 transcripts - **Luciana Jesus da Costa**, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil
3. Mechanisms by which the HIV-1 accessory protein Nef modifies protein trafficking in host cells – **Luis Lambert Pinto da Silva**, University of São Paulo, Ribeirão Preto, SP, Brazil (Chair)

10:30 am - 11:00 am **Coffee break and Visit to Exhibits**

11:00 am - 12:00 noon

**Room Esmeralda**
**Conference 3:**
- Polydnaviruses as symbionts and immunomodulatory gene delivery vehicles
  - **Michael R. Strand**, University of Georgia, Athens, GA, USA

12:30 pm - 13:30 pm **Room Ónix**
- Evolution of canine parvovirus - a need for new vaccines?
  - **Dr. Uwe Truyen**, Editor-in-chief of Veterinary Microbiology, Institute for Animal Hygiene, University of Leipzig, Leipzig, Germany

12:00 am - 2:00 pm **Lunch break and Visit to Exhibits**

2:00 pm - 3:00 pm

**Room Esmeralda**
**Conference 4:**
- Early events in flavivirus infection
  - **Jolanda Smit**, The University Medical center Groningen, Groningen, The Netherlands

**Round Tables 5 to 8**
3:00 pm - 4:30 pm

**Room Turquesa**
**Round Table 5 - Basic Virology - Interactions of flaviviruses with hosts**
1. Effects of yellow fever virus infection on splicing – **Mauricio Lacerda Nogueira**, São José do Rio Preto Medical School, São José do Rio Preto, SP, Brazil (Chair)
2. Structure of dengue virus proteins – **Ronaldo Mohana Borges**, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil
3. The influence of dengue virus infection on Aedes aegypti feeding behaviour - **Rafael Maciel de Freitas**, Oswaldo Cruz Foundation, Rio de Janeiro, RJ, Brazil
### Tuesday, September 30

| Time | Location | Round Table 5 to 8
|------|----------|-------------------|
| 3:00 pm - 4:30 pm | Room Topázio | Round Table 6 - Human Virology - Human infections by emerging viruses
- Central nervous system infections by arboviruses - **María Paula Mourão**, Heitor Vieira Dourado Foundation for Tropical Medicine, Manaus, AM, Brazil
- Clinical pathogenesis of hantavirus pulmonary syndrome - **Luiz Tadeu Moraes Figueiredo**, University of São Paulo School of Medicine, Ribeirão Preto, SP, Brazil (Chair)
- Chloroquine for dengue virus infections - **Benedetto Antonio Lopes da Fonseca**, University of São Paulo School of Medicine, Ribeirão Preto, SP, Brazil

### Room Ônix

| Time | Location | Round Table 7 - Veterinary Virology - Molecular diversity of animal viruses
|------|----------|-------------------|
| 3:00 pm - 4:30 pm | Room Topázio | Round Table 6 - Human Virology - Human infections by emerging viruses
- Reservoirs of vaccinia virus in Brazil - **Erna Geessien Kroon**, Federal University of Minas Gerais, Belo Horizonte, MG, Brazil
- Molecular epidemiology and evolution of porcine paroviruses - **André Felipe Streck**, Federal University of Rio Grande do Sul, Porto Alegre, RS, Brazil
- Emergent viruses associated with gastroenteritis in dogs and cats - **Tatiana Xavier de Castro**, Fluminense Federal University, Niterói, RJ, Brazil
- Molecular diversity of canine distemper virus - **Alice Fernandes Alfieri**, Londrina State University, Londrina, PR, Brazil

### Room Ágata

| Time | Location | Round Table 8 - Human virology/Immunobiologic products - Computational virology applied to dengue virus studies
|------|----------|-------------------|
| 3:00 pm - 4:30 pm | Room Turquesa | Round Table 9 - Canceled

### Room Ônix

| Time | Location | Round Table 10 - Basic Virology - Virus-host cell interactions and virus assembly
|------|----------|-------------------|
| 4:30 pm - 5:00 pm | Room Turquesa | Round Table 9 - Canceled

### Room Ágata

| Time | Location | Round Table 11 - Immunobiologicals - Experimental animal models in virology
|------|----------|-------------------|
| 4:30 pm - 5:00 pm | Room Turquesa | Round Table 9 - Canceled

### Room Topázio

| Time | Location | Round Table 12 - Helio Gelli Pereira Award Oral Presentations
|------|----------|-------------------|
| 6:30 pm - 8:30 pm | Room Topázio | Round Table 12 - Helio Gelli Pereira Award Oral Presentations

| Time | Location | Activity
|------|----------|-------------------|
| 10:00 pm | Room Topázio | Social mixer and dance
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 8:00 am – 9:00 am | **Mini-course 1:** Introduction to viral replication / Room Ágata  
• Luciana Jesus da Costa, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil |
|                   | **Mini-course 2:** Proteomic applications in virology / Room Turquesa  
• Alessandra Vidotto, Medical School of São José do Rio Preto, São José do Rio Preto, SP, Brazil |
|                   | **Mini-course 3:** Molecular diagnosis in virology / Room Topápio  
• Roberta Bronzoni, Federal University of Mato Grosso, Sinop, MT, Brazil, and Luciano Kleber de Souza Luna, University of São Paulo, Ribeirão Preto, SP, Brazil |
|                   | **Mini-course 4:** Viral phylogeny and sequence analysis / Room Ónix  
• Camila Romano, University of São Paulo, São Paulo, SP, Brazil |
| 9:00 am - 10:00 am| Room Esmeralda  
Conference 5:  
• The cardiac innate response to viral infections  
Barbara Sherry, North Carolina State University, Raleigh, NC, USA |
| 10:00 am - 10:30 am| Coffee-break and Visit to Exhibits |
| 10:30 am - 12:30 pm| Room Esmeralda  
SBV Business meeting and election of new board of directors |
| 12:30 pm - 2:00 pm| Lunch break and Visit to Exhibits |
| 2:00 pm -3:00 pm  | Room Esmeralda  
Conference 6:  
• The emergence of chikungunya virus in South America  
Xavier Nicolas de Lamballere, Emerging Viruses Unit, University of Marseille, France |
| 3:00 pm - 5:00 pm  | **Round Tables 13 to 16**  
Room Ágata  
**Round Table 13 - Veterinary Virology - Antivirals for animal viruses**  
1. Viral activity of natural compounds and derivatives against pet's virus and animals herpesvirus – Márcia Rogêria Lamêgo Almeida, Federal University of Viçosa, Viçosa, MG, Brazil  
2. In vitro and in vivo inhibition of rabies virus by RNAi – Paulo Eduardo Brandão, University of São Paulo, São Paulo, SP, Brazil (Chair)  
3. Control of ruminant morbillivirus replication by small interfering RNA – Renata Servan de Almeida, Agricultural Research for Development (CIRAD), Montpellier, France  
4. Antiviral activity of Brazilian marine organisms - Claudia Maria Oliveira Simões, Federal University of Santa Catarina, Florianópolis, SC, Brazil |
|                   | Room Turquesa  
**Round Table 14 - Plant and Invertebrate Virology - Control of emerging plant viruses**  
1. Recent advances in the study of papaya sticky disease – Patricia Fernandes, Federal University of Espírito Santo, Vitória, ES, Brazil  
2. Badnaviruses: Biology and management in tropical crops – Andrew Geering, University of Queensland, Brisbane, Australia  
3. Epidemiology and management of viruses transmitted by Bemisia tabaci in solanaceous crops – Jorge Alberto Marques Rezende, University of São Paulo, Piracicaba, SP, Brazil (Chair) |
|                   | Room Topápio  
**Round Table 15 - Immunobiologicals - Advances in biotechnology products with applications in virology**  
1. Parapoxviruses as vectors – Diego Diel, University of Illinois, Urbana-Champaign, USA  
2. Expression of viral vaccines in plants – Tatsuya Nagata, National University of Brasilia, Brasilia, DF, Brazil (Chair)  
3. Advances in biotechnology products with applications in virology – Marcos Freire, Bio-Manguinhos/ Fiocruz, Rio de Janeiro, RJ, Brazil  
4. Carbon nanotubes applied to point-of-care testing for immunoassay – Rosa Amalia Fireman Dutra, Federal University of Pernambuco, Recife, PE, Brazil |
|                   | Room Ágata  
**Round Table 16 - Human Virology - Advances in HTLV research**  
1. Effects of HTLV-1 infection on human mesenchymal stromal cells - Simone Kashima Haddad, University of São Paulo, Ribeirão Preto, SP, Brazil (Chair)  
2. Leukotrienes in HTLV-1-related neuroinflammatory diseases – Lúcia Helena Facchioni, University of São Paulo, Ribeirão Preto, SP, Brazil  
3. HTLV-1 reverse genetics and search for an intracellular carrier of ORF-1 gene product – Luiz Carlos Alcântara, Gonçalo Moniz Research Center, Fiocruz, Salvador, BA, Brazil |
Hélio Gelli Pereira Award

The evaluation of papers submitted for the Helio Gelli Pereira Award will take place on Tuesday, September 30, from 5:30 to 7:00 pm. Presenters will have 10 minutes for their presentation, followed by 5 minutes of questions from the examiners and, if time permits, from the audience.

Hélio Gelli Pereira Award

A RESOURCEFUL GIANT: APMV IS ABLE TO INTERFERE WITH THE HUMAN TYPE I INTERFERON SYSTEM
Silva, L.C.F.; de Almeida, G.M.; Oliveira, D.B.; Dornas, F.P.; Campos, R.K.; La Scola, B.; Kroon, E.G.; Ferreira, P.C.P.; Abrahão, J.S.

THE MOVEMENT PROTEINS (NSM) OF DISTINCT TOSPOVIRUSES SELF-INTERACT, ASSOCIATE WITH THE COGNATE NUCLEOCAPSID (NP) AND WITH HETEROLOGOUS NSM AND NP PROTEINS AND WITH THE CELLULAR MEMBRANE IN A NON-TRANSMEMBRANE FASHION
Leastro, M.O.; Pallás, V; Resende, R.O.; Navarro, J.A.S.

HIV-1 TRANSCRIPTS USE IRES-INITIATION UNDER CONDITIONS WHERE CAP-DEPENDENT TRANSLATION IS RESTRICTED BY POLIOVIRUS 2A. PROTEAS

ACANTHAMOEBA POLYPHAGA MIMIVIRUS INHIBITS TRANSCRIPTION OF AMOEBA 2 SUBTILISIN-LIKE SERINE PROTEINASE MRNA AND CIRCUNVENTS CELL ENCYSTMENT
Boratto, P.V.M.; Almeida, G.M.F.; Botelho, L.; Lima, A.; Costa, A.O.; Santos, D.A.; La Scola, B.; Kroon, E.G.; Ferreira, P.C.P.; Abrahão, J.S.

HTLV-1 INFECTS HUMAN MESENCHYMAL STROMAL CELL IN VITRO AND MODIFIES THEIR PHENOTYPIC CHARACTERISTICS
## SESSION 1 – Human Virology I

### HV33 - DETECTION OF IMPORTED CASES OF CHIKUNGUNYA VIRUS IN BRAZIL: VIRUS ISOLATION, MOLECULAR AND SEROLOGICAL ASSAYS

### HV125 - ORAL HUMAN PAPILLOMAVIRUS INFECTION IN HIV-POSITIVE PEOPLE
Silva, C.O.; Santos, L.S.; de Azevedo, K.M.L.; Pereira, O.M.D.; Oliveira, L. do H. dos S.

### HV147 - NEW REAL TIME PCR ASSAY FOR RAPID DETECTION OF TRICHODYSPLASIA SPINULOSA-ASSOCIATED POLYOMAVIRUS IN BIOLOGICAL SAMPLES
Urbano, P.R.; Nali, L.H. da S.; Pannuti, C.S.; Pierrotti, L.C.; Neto, E.D.; Romano, C.M.

### HV213 - EXPRESSION PROFILE OF HUMAN ENDOGENOUS RETROVIRUS W (HERV-W) LOCI FROM MULTIPLE SCLEROSIS PATIENTS UNDER DISTINCT THERAPIES BY HIGH THROUGHPUT SEQUENCING
Nali, L.H. da S.; Urbano, P.R.P.; Silva, D.F.; Olival, G.S. do; Penalva de Oliveira, A.C.; Romano, C.M.

### HV240 - HIGH FREQUENCY OF SAFFOLD VIRUS IN TONSIL TISSUES FROM PATIENTS WITH CHRONIC TONSILLAR HYPERTROPHY
Luna, L.K. de S.; Valera, F.C.P.; Tamashiro, E.; Lima, W.T.A.; Arruda, E.

### HV247 - FIRST REPORT OF NOROVIRUSES OCCURRENCE AMONG ALLOGENEIC STEM CELL TRANSPLANT RECIPIENTS IN BRAZIL: EVIDENCE FOR PROLONGED VIRAL EXCRETION AND LONG-TERM VIRAL RNA PRESENCE IN THE BLOOD
Souza, M.; Lemes, L.N.; Correa, T. dos S.; Fiaccadori, F.S.; Souza, K.M.C. da Silva, L.P.; Arantes, A. de M.; Cardoso, D. das D. de P.; Souza, M.

## SESSION 2 – Plant and Invertebrate I

### PIV150 - TWO NOVEL BEGOMOVIRUS SPECIES FROM THE NEW WORLD WITH FEATURES RECALLING OLD WORLD BEGOMOVIRUSES
Godinho, M.T.; Lima, A.T.M.; Xavier, C.A.D.; Zerbini, F.M.

### PIV160 - COMPLETE GENOME SEQUENCE OF TWO NEW VIRUSES ISOLATES ASSOCIATED TO COTTON BLUE DISEASE BREAKING RESISTANCE IN BRAZIL

### PIV210 - SYSTEMIC ACQUIRE RESISTANCE INDUCED BY CELL WALL PEPTIDOGALACTOMANNAN OF THE FUNGUS CLADOSPORIUM HERBARUM MEDIATES VIRUS PROTECTION IN TOBACCO PLANTS
Vaslin, M.F.S.; Montebianco, C.B.; Mattos, B.B.B.; Silva, T. da F.; Romanel, E.; Bergter, E.B.; Vaslin, M.F.S.

### PIV221 - PROTEIN SYNTHESIS ANALYSIS OF INSECT CELL LINES INFECTED WITH SPODOPTERA FRUGIPERDA MULTIPLE NUCLEOPOLYHEDROVIRUS (SFMPNV)
Marcio, M.S.; Sihler, W.; Souza, M.L.

### PIV295 - CHARACTERIZATION OF A BACULOVIRUS HOST-ACQUIRED PROTEASE INHIBITOR AND ITS ABILITY TO AUGMENT VIRAL VIRULENCE
Ardisson, A.D.M.P.; Rohrmann, G.A.; Bergmann, M.R.; Rollie, J.C.

### PIV357 - IDENTIFICATION OF A NEW DCL3 GENE IN COTTON GOSSYPIUM RAIMONDII (ULBRICH) D-GENOME AND STUDY OF THE ROLE OF NEW ISOFORMS OF GENE SILENCING RELATED GENES IN COTTON VIRUS INFECTED PLANTS
Vaslin, M.F.S.; Romanel, E.; Moura, M.; Lei, G.; Paterson, A.

## SESSION 3 – Veterinary Virology I

### VV27 - ANALYSIS OF SINGLE NUCLEOTIDE POLYMORPHISMS IN THE APOBEC3H GENE OF DOMESTIC CATS (FELIS CATUS) AND THEIR ASSOCIATION WITH THE SUSCEPTIBILITY TO FELINE IMMUNODEFICIENCY VIRUS AND FELINE LEUKEMIA VIRUS INFECTIONS

### VV37 - PARTIAL CHARACTERIZATION OF AVIAN INFLUENZA VIRUS (H11N9) IN MIGRATORY BIRDS (ARENARIA INTERPREPS) CAPTURED IN AMAZON REGION, BRAZIL

### VV96 - AVIAN CORONAVIRUS AND AVIAN BORNAVIRUS DETECTION IN FREE-RANGEING PSITTACINES
SESSION 3 – Veterinary Virology I

VV113 - PRIMARY AND SECONDARY MUCOSAL IMMUNITY AFTER CHALLENGE WITH BRAZILIAN AVIAN INFECTIONOUS BRONCHITIS VARIANT

VV172 - ASTROVIRUS DETECTION IN THE BAT TADARIDA BRASILIENSIS (GEOFFROY, 1824: CHIROPTERA, MOLOSSIDAE) FROM RIO GRANDE DO SUL STATE, BRASIL

VV207 - DETECTION OF AVIAN GROUP F ROTAVIRUS IN FECAL SAMPLES OF BROILER CHICKENS IN PARA STATE, BRAZIL
Bezerra, D.A.M.; Silva, M.J.M.; Bezerra, D.A.M.; Silva, R.R.; Soares, L.S.; Mascarenhas, J.D.P.

SESSION 4 – Environmental Virology

EV90 - PATHOGENS INACTIVATION BY UNIONIZED AMMONIA FOR THE PRODUCTION OF SAFE BIOFERTILIZER FROM SWINE EFFLUENT AND SLUDGE

EV140 - ANALYSIS OF MARINE VIRAL FAMILIES ASSOCIATED WITH SIDERASTREA STELLATA FESTIVAL IN ARRAIILDO CABO AND BÚZIOS, RJ, BRAZIL
Santana-Pereira, P.; Giongo, V.; Pedrosa, L.G.; Paula, J.E.F.B.; Amorim, L.; Paixão, I.C.N.P.

EV255 - DETECTION OF HUMAN ADENOVIRUSES IN SEDIMENTS FROM STREAMS IN URBAN AREAS FROM RIO DOS SINOS WATERSHED

EV306 - ENVIRONMENTAL POLIOVIRUS SURVEILLANCE: DETECTION OF WILD AND VACCINE - DERIVED POLIOVIRUSES IN SÃO PAULO SEWAGE

EV430 - DIFFERENT PHAGES ACTION PATHWAYS IN REDUCING BIOFILMS FORMED BY OIL REFINERIES ASSOCIATED BACTERIA
Dias, R.S.; Fonseca, L.A.B.V.; Albanese, J.M.; Silva, L.C.F.; Suhette, R.; Torres, A.PR.; Sousa, M.P.; Silva, C.C.; Oliveira, V.M.; de Paula, S.O.

EV457 - FIRST IDENTIFICATION OF ACANTHAMOEBA POLYPOHYAGA MIMIVIRUS IN LIMNOPHAGA FROM GUAIBA LAKE, RIO GRANDE DO SUL, BRAZIL
dos Santos, R.N.; Arantes, T.; Correa, R.A.; de Albuquerque, N.R.M.; Kluge, M.; Santos, C.; dos Santos, C.P.; Campos, F.C.; Roche, P.M.; Franco, A.C.

SESSION 5 – Basic Virology I

BV12 - OROPOUCHE ORTHOBUNYAVIRUS MINIGENOME SYSTEM REVEALS SIGNIFICANT ERRORS IN THE PUBLISHED GENOME SEQUENCES

BV86 - KROON VIRUS: A NEW AND HIGHLY RESISTANT GIANT VIRUS WITH EXTRA SHELL LAYER

BV95 - DYNAMIC COVALENT BONDS IN VIRAL CAPSIDS: AUTO PROTEOLYSIS INVOLVED IN CAPSID MATURATION CAN BE REVERSED UNDER PHYSIOLOGICAL CONDITIONS
Domitrovic, T.; Matsui, T.; Johnson, J.E.

BV105 - ANALYSIS OF DIFFERENTIAL METHYLATION PROFILE IN PATIENTS WITH DENGUE USING METHYLATION-SENSITIVE ARBITRARILY PRIMED POLYMERASE CHAIN REACTION
Alessandra, V.B.T. G.; Morais, S.M. de S.; Ferreira, J.M.S.; Malaquias, L.C.C.; Coelho, L.F.L.

BV171 - STUDY OF STOP CODONS RECURRENCE IN HEPATITIS C VIRUS NS5A PROTEIN
Campos, G.R.F.; Bitar, C.; Rahal, P.

BV175 - CHARACTERIZATION OF THE INTERACTION BETWEEN THE METHYLOSSOME AND THE HUMAN RESPIRATORY SYNCTIAL VIRUS NUCLEOCAPSID
Ogawa, J.; Oliveira, A.; Simabuco, F.; Éleouët, J.F; Ventura, A.
### SESSION 6 – Human Virology II

**HV258** - **DETECTION AND TYPING OF HUMAN PAPILLOMAVIRUS BY NESTED MULTIPLEX PCR (NMPCR) REVEALS NEW EPIDEMIOLOGICAL PROFILE**  
Faria, M.G.; Matias, B.F.; Costa, E.P.; Julião, J.A.S.; Junior, P.C.F.; Goulart, L.R.

**HV262** - **USE OF CHIMERIC PROTEINS EXPRESSED IN PROKARYOTIC SYSTEM IN THE DEVELOPMENT OF A SCREENING METHOD FOR THE EVALUATION OF ANTI-HTLV-1 ANTIBODIES**  
Santos, D.M. da S.; do Carmo, A.P.; Martins, M.L.; da Fonseca, F.G.; Stancioli, E.E.B.

**HV311** - **HEPATITIS C VIRUS QUASISPECIES ANALYSIS USING ULTRA-DEEP PYROSEQUENCING**  

**HV340** - **EFFECTS OF HTLV-1 INFECTION ON BONE MARROW CELLS FROM HTLV-1 INFECTED INDIVIDUALS**  
Rodrigues, E.S.; Favarin, M. do C.; Macedo, M.D. de Otaguiri, K.K.; Orellana, M.D.; Takayanagui, O.M.; Slavov, S.N.; Covas, D.T.; Kashima, S.

**HV346** - **EVIDENCE OF HEPATITIS E VIRUS CIRCULATION IN RURAL AMAZONIA**  
Merlone, M.P.; Vitral, C.L.; Oliveira, J.M.; Silva, J.P.; Nunes, M.S.; Ferreira, M.U.; Pinto, M.A.

### SESSION 7 – Plant and Invertebrate Virology II

**PIV378** - **THE FIRST COMPLETE GENOME SEQUENCE OF COFFEE RINGSPOT VIRUS; AN EMERGING THREAT TO COFFEE PRODUCTION AND QUALITY**  
Figueira, A. dos R.; Ramalho, T.O.; Sotero, A. de J.; Duarte, P. de S.G.; Wang, R.; Farman, M.; Goodin, M.M.

**PIV383** - **SUBCELLULAR LOCALIZATION OF COFFEE RINGSPOT VIRUS PROTEINS**  

**PIV423** - **COMPLETE GENOME SEQUENCE OF A TOBACCO-INFECTING TOMATO BLISTERING MOSAIC VIRUS**  
Fernandes, J.E.F.; Melo, F.L.; Ribeiro, B.M.; Ribeiro, G.S.

**PIV452** - **COMPLETE GENOME SEQUENCE OF A NOVEL IFLAVIRUS ISOLATED FROM OPSIPHANES INVIRAE**  
Silva, L.A.; Melo, F.L.; Tinôco, R.S.; Fernandes, O.A.

**PIV509** - **THE FUNCTIONAL ANALYSIS OF DISTINCT TOSPOVIRUS MOVEMENT PROTEINS (NSM) REVEALS DIFFERENT BEHAVIOR FROM THE ALFALFA MOSAIC VIRUS (AMV) MODEL SYSTEM**  
Leastro, M.O.; Peiró, A.; Pallás, V.; Navarro, J.A.S.; Resende, R.O.

**PIV510** - **THE MOVEMENT PROTEINS (NSM) OF DISTINCT TOSPOVIRUSES SELF-INTERACT, ASSOCIATE WITH THE COGNATE NUCLEOCAPSID (NP) AND WITH HETEROLOGOUS NSM AND NP PROTEINS AND WITH THE CELLULAR MEMBRANE IN A NON-TRANSMEMBRANE FASHION**  
Leastro, M.O.; Pallás, V.; Resende, R. de O.; Navarro, J.S.

### SESSION 8 – Veterinary Virology II

**VV229** - **LONG-TERM CIRCULATION OF INFLUENZA A VIRUSES IN SWINE IN BRAZIL**  

**VV260** - **EVIDENCE OF ORTHOPOXVIRUS CIRCULATION AMONG URBAN DOMESTIC CATS, MINAS GERAIS, BRAZIL**  
Miranda, J.B.; Costa, G.B.; Almeida, G.G.; Figueiredo, P. de O.; Bonjardim, C.A.; Ferreira, P.C.P.; Abrahão, J.S.; Kroon, E.G.; Trindade, G. de S.

**VV303** - **DEVELOPMENT AND STANDARDIZATION OF A MULTIPLEX RT-PCR FOR THE DETECTION THE PRINCIPAL RESPIRATORY VIRUS IN BIRDS**  

**VV316** - **SEQUENCING AND PHYLOGENETIC ANALYSIS OF NUCLEOPROTEIN OF RABIES VIRUS ISOLATED FROM CATTLE IN THE STATE OF RIO GRANDE DO SUL**  
Fernandes, M.E.S.; Pereira, F.M.C.; Achkar, S.M.; Oliveira, R.N.; Ferreira, J.C.; Rosa, J.C.A.; Castilho, J.G.; Almeida, L.L.; Carniel, Jr. P.; Roehe PM; Batista HBCR

**VV321** - **HERPESVIRUS SIMPLEX TYPE-1 OUTBREAK IN MARMOSETS (CALLITHRIX)**  

**VV333** - **ABC OF CANINE PARVOVIRUSES GENOGROUPS AND ANTIGENIC TYPES**  
Streek, A.F.; Borchardt, A.; Daudt, C.; Canal, C.W.
<table>
<thead>
<tr>
<th>Room Topázio</th>
<th>5:00 pm - 6:30 pm</th>
<th>SESSION 9 – Human Virology III</th>
</tr>
</thead>
<tbody>
<tr>
<td>HV353</td>
<td>IMPLEMENTATION OF NEXT GENERATION SEQUENCING TECHNIQUES FOR PATHOGEN DISCOVERY IN CEREBROSPINAL FLUID OF PATIENTS WITH ENCEPHALITIS AND MENINGITIS</td>
<td></td>
</tr>
<tr>
<td>HV417</td>
<td>CO-DETECTIONS OF RESPIRATORY VIRUSES BY QPCR IN THE ABSENCE OF SYMPTOMS OF ACUTE RESPIRATORY INFECTION (ARI): NEW INSIGHTS ON SOURCES OF VIRUS SHEDDING</td>
<td></td>
</tr>
<tr>
<td>HV428</td>
<td>ANALYSIS OF INFLUENZA A(H1N1)PDM09 VIRAL LOAD IN PATIENTS WITH DIFFERENT CLINICAL PRESENTATION</td>
<td></td>
</tr>
<tr>
<td>HV436</td>
<td>HIV-1 ENV SUBTYPES AND DISEASE PROGRESSION IN A COHORT OF HIV-1 POSITIVE INDIVIDUALS FROM RIO DE JANEIRO, BRAZIL</td>
<td></td>
</tr>
<tr>
<td>HV437</td>
<td>OPTIMIZATION OF A LOOP-MEDIATED ISOTHERMAL AMPLIFICATION ASSAY FOR NAKED-EYE DETECTION OF DENGUE VIRUS INFECTION</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Room Ágata</th>
<th>5:00 pm - 6:30 pm</th>
<th>SESSION 10 – Basic Virology II</th>
</tr>
</thead>
<tbody>
<tr>
<td>BV225</td>
<td>HIV-1 TRANSLATION INITIATION IS INHIBITED BY POLIOVIRUS 2A PROTEASE</td>
<td></td>
</tr>
<tr>
<td>BV280</td>
<td>2A PROTEASE FROM HUMAN RHINOVIRUS C15 DOES NOT PROVIDE INTERFERON RESISTANCE AND TRAFD1 HAS AN ANTIVIRAL ACTIVITY AGAINST HUMAN RHINOVIRUSES AND ENCEPHALOMYOCARDITIS VIRUS</td>
<td></td>
</tr>
<tr>
<td>BV345</td>
<td>IDENTIFICATION OF THE CELLULAR AND MOLECULAR DETERMINANTS OF FLAVIVIRUS FUSION</td>
<td></td>
</tr>
<tr>
<td>BV379</td>
<td>DEVELOPMENT OF TWO POTENTIAL TOOLS AGAINST THE REPLICATION OF THE DENGUE VIRUS</td>
<td></td>
</tr>
<tr>
<td>BV490</td>
<td>IN VITRO MICROEVOLUTION OF DENGUE VIRUS 4 IN AEDES ALBOPICITUS CELLS</td>
<td></td>
</tr>
<tr>
<td>BV501</td>
<td>ALIX IS A HOST CELL FACTOR REQUIRED FOR LYSOSOMAL TARGETING OF CD4 BY HIV-1 NEF</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Room Ônix</th>
<th>5:00 pm - 6:30 pm</th>
<th>SESSION 11 – Veterinary Virology III</th>
</tr>
</thead>
<tbody>
<tr>
<td>VV351</td>
<td>GENETIC CHARACTERIZATION OF CANINE CIRCOVIRUS DETECTED IN STOOL SAMPLES FROM DOGS IN THE SOUTH REGION OF BRAZIL</td>
<td></td>
</tr>
<tr>
<td>VV365</td>
<td>PHYLOGENETIC ANALYSIS OF AICHIVIRUS B IN FECAL SAMPLES FROM CALVES IN BRAZIL</td>
<td></td>
</tr>
<tr>
<td>VV393</td>
<td>VIABILITY OF VACCINIA VIRUS IN EXPERIMENTALLY CONTAMINATED CHEESES AT DIFFERENT TIMES OF THE MATURATION PROCESS</td>
<td></td>
</tr>
<tr>
<td>VV396</td>
<td>MOLECULAR DETECTION AND PHYLOGENETIC RELATIONSHIPS OF AN AMPHIBIAN RANAVIRUS ASSOCIATED TO OUTBREAKS OF MORTALITY IN BRAZILIAN FISH FARM</td>
<td></td>
</tr>
<tr>
<td>VV470</td>
<td>VIRUCIDAL ACTIVITY OF A PURIFIED COMPOUND ISOLATED FROM PRASIOLA CRISPA AGAINST EQUINE HERPESVIRUS TYPE 1</td>
<td></td>
</tr>
<tr>
<td>VV473</td>
<td>VIRUS CONVERSION IN EXPERIMENTALLY CONTAMINATED CHEESES AT DIFFERENT TIMES OF THE MATURATION PROCESS</td>
<td></td>
</tr>
</tbody>
</table>

**Monday, September 29**

**Room Topázio**

**HV436** - HIV-1 ENV SUBTYPES AND DISEASE PROGRESSION IN A COHORT OF HIV-1 POSITIVE INDIVIDUALS FROM RIO DE JANEIRO, BRAZIL
Leite, T.; Campos, D.; Coelho, A.; Teixeira, S.; Veloso, V.; Guimarães, M.; Morgado, M.G.

**HV437** - OPTIMIZATION OF A LOOP-MEDIATED ISOTHERMAL AMPLIFICATION ASSAY FOR NAKED-EYE DETECTION OF DENGUE VIRUS INFECTION
Monteiro, D.C.S.; Carvalho, B.K.S.; Nascimento, V.A.; Souza, V.C.; Naveca, F.G.

**Room Ágata**

**BV225** - HIV-1 TRANSLATION INITIATION IS INHIBITED BY POLIOVIRUS 2A PROTEASE
Amorim, R.; Costa, L.J. da

**BV280** - 2A PROTEASE FROM HUMAN RHINOVIRUS C15 DOES NOT PROVIDE INTERFERON RESISTANCE AND TRAFD1 HAS AN ANTIVIRAL ACTIVITY AGAINST HUMAN RHINOVIRUSES AND ENCEPHALOMYOCARDITIS VIRUS
Gagliardi, T.B.; Dabelaic, R.; Racaniello, V.R.

**BV345** - IDENTIFICATION OF THE CELLULAR AND MOLECULAR DETERMINANTS OF FLAVIVIRUS FUSION
Esposito, D.L.A.; Nguyen, J.B.; Modis, Y.

**BV379** - DEVELOPMENT OF TWO POTENTIAL TOOLS AGAINST THE REPLICATION OF THE DENGUE VIRUS

**BV490** - IN VITRO MICROEVOLUTION OF DENGUE VIRUS 4 IN AEDES ALBOPICITUS CELLS
Nascimento, V.A.; Souza, V.C.; Naveca, F.G.

**BV501** - ALIX IS A HOST CELL FACTOR REQUIRED FOR LYSOSOMAL TARGETING OF CD4 BY HIV-1 NEF
Januário, M.E. da S.; de Souza, L.J.; Costa, L.J.; de Souza, L.L.P.

**Room Ônix**

**VV351** - GENETIC CHARACTERIZATION OF CANINE CIRCOVIRUS DETECTED IN STOOL SAMPLES FROM DOGS IN THE SOUTH REGION OF BRAZIL

**VV365** - PHYLOGENETIC ANALYSIS OF AICHIVIRUS B IN FECAL SAMPLES FROM CALVES IN BRAZIL

**VV393** - VIABILITY OF VACCINIA VIRUS IN EXPERIMENTALLY CONTAMINATED CHEESES AT DIFFERENT TIMES OF THE MATURATION PROCESS

**VV396** - MOLECULAR DETECTION AND PHYLOGENETIC RELATIONSHIPS OF AN AMPHIBIAN RANAVIRUS ASSOCIATED TO OUTBREAKS OF MORTALITY IN BRAZILIAN FISH FARM

**VV470** - VIRUCIDAL ACTIVITY OF A PURIFIED COMPOUND ISOLATED FROM PRASIOLA CRISPA AGAINST EQUINE HERPESVIRUS TYPE 1
Martinho, R.S.S.; Ramos, C.J.B.; Leite, J.P.G.; Belo, C.A.D.; Pereira, A.B.; Teixeira, V.L.; Paixão, I.C.N.P.; Pinto, A.M.V.

**VV473** - VIRUS MONITORING IN BATS, RODENTS AND MARSUPIALS FROM BRAZILIAN RAINFOREST REGION AND AMAZON REGION COLLECTED BETWEEN 2008 AND 2013
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>IV183</td>
<td>THE IMPACT OF ADJUVANT IN WHOLE INACTIVATED VIRUS (WIV) VACCINES FOR INFLUENZA A INFECTION IN PIGS WITH VACCINE-ASSOCIATED ENHANCED DISEASE</td>
<td>Souza, K.C.; Rajao, D.; Loving, L.C.; Gauger, C.P.; Vincent, L.A.</td>
</tr>
<tr>
<td>IV218</td>
<td>SELECTION AND CHARACTERIZATION OF MIMOTOPES THROUGH PHAGE DISPLAY FOR IMMUNOGLOBULIN A DETECTION IN HPV DIAGNOSIS</td>
<td>Matias, B.F.; Lima, M.I.S.; Faria, M.G.; Costa, E.P.; Alves, P.T. Pereira, U.P.; Fernandes Jr, P.C.; Goulart, L.R.</td>
</tr>
<tr>
<td>IV477</td>
<td>INFLUENZA: DEVELOPMENT OF A REVERSE GENETICS SYSTEM BY YEAST-BASED HOMOLOGOUS RECOMBINATION AND ITS APPLICATION IN THE IMPROVED VACCINE PRODUCTION IN CULTURE CELL</td>
<td>Silva Jr, J.V.J.; Cruz, F. da S.P.; Bertani, G.R.; Machado, A. de M.V.; Gil, L.H.V.G.</td>
</tr>
<tr>
<td>IV482</td>
<td>RECONSTRUCTION OF LATENT AND REACTIVATED QUASISPECIES OF SIVMM251 INFECTING RHESUS MONKEYS AFTER TREATMENT WITH THE LATENCY ANTAGONIST INGENOL-B</td>
<td>Gonçalves, G. dos S.; Abreu, C.M.; Price, S.L.; Gama, L.; Lewis, M.; Pianowski, L.F.; Tanuri, A.</td>
</tr>
</tbody>
</table>