

XXIV Brazilian Congress of Virology Scientific Program

Sunday,
September 1

- 9:00 am – 12:00 am** **Room 1**
Satellite Symposium 1: CAPES-SBV MEETING: Brazilian priorities for planning a cooperation network in Virology
Chair: Paulo Michel Roehe
9:00-9:05 Welcome - **Paulo Michel Roehe**, UFRGS, Porto Alegre, RS, Brazil
9:05-9:15 Suggestions for an agenda of cooperation in virology - **Eurico Arruda**, FMRP-USP, Ribeirão Preto, SP, Brazil
9:15-9:30 Virology as a CAPES priority - **Maria Angelica Miglino**, Veterinary Medicine Area Coordinator, CAPES, Brasília, DF, Brazil
0:30-9:45 Priorities in veterinary virology - **Clarice Weiss Arns**, UNICAMP, Campinas, SP, Brazil
9:45-10:00 Priorities in plant virology - **Paulo Sérgio Briosso**, UFRRJ, Seropédica, RJ, Brazil
10:00-10:15 Priorities in human virology - **Mauricio Lacerda Nogueira**, FAMERP, São José do Rio Preto, SP, Brazil
10:15-10:45 Coffee-Break
10:45-11:00 Priorities in environmental virology - **Celia Regina Barardi**, UFSC, Florianópolis, SC, Brazil
11:00-11:15 Priorities in the production of biopharmaceuticals in virology - **Edson Elias Silva**, FIOCRUZ, Rio de Janeiro, RJ, Brazil
11:15-11:30 Priorities in Basic Virology - **Luciana Jesus da Costa**, UFRJ, Rio de Janeiro, RJ, Brazil.
11:30-11:55 Questions and discussion among participants and audience
11:55-12:00 Closing remarks and adjourn - **Maria Angelica Miglino**
- 2:00 pm – 4:00 pm** **Room 2**
Satellite Symposium 2: Impact of viroids or virus diseases on agribusiness
Some applied contributions to prevent yield losses due to viruses diseases in a vegetative propagation system: The potato as a study case - **José Alberto Caram de Souza Dias**, IAC, Campinas, SP, Brazil
Viroids in Brazil: current status, economic importance and control measures - **Marcelo Eiras**, Instituto Biológico, São Paulo, SP, Brazil
Effects of viruses in the production of tropical fruits - **Paulo Ernesto Meissner Filho**, Embrapa Mandioca e Fruticultura, Cruz das Almas, BA, Brazil
Chair: Paulo Sérgio Torres Briosso, UFRRJ, Seropedica, RJ, Brazil
- Room 3**
Satellite Symposium 3: Selected topics on respiratory viruses
-Respiratory syncytial virus epidemics in an equatorial city - **Fernanda Edna Moura**, UFC, Fortaleza, CE, Brazil
-Escape mutants of human respiratory syncytial virus resistant to palivizumab – **Edison Luiz Durigon**, Biomedical Sciences Institute, USP, São Paulo, Brazil
-Evolution of parainfluenza viroses - **Viviane Fongaro Botosso**, Butantan Institute, São Paulo, SP, Brazil
-Newcastle disease virus in poultry and free-living birds: an update - **Adriano de Oliveira Torres Carrasco** – Universidade Estadual do Centro Oeste, UNICENTRO, Guarapuava, PR, Brazil
Co-chairs: Viviane Fongaro Botosso, Butantan Institute; and Edison L. Durigon, ICB-USP, São Paulo, SP, Brazil
- 4:00 pm – 4:30 pm** **Coffee-Break**
- 4:30 pm – 5:30 pm** **Room 1**
Pre-Congress Conference:
High throughput prospection for emerging viruses - **Andreas Nitsche**, Robert Koch Institute, Division of Highly Pathogenic Viruses, Berlin, Germany
Chair: Clarissa Damaso, UFRJ, Rio de Janeiro, RJ, Brazil
- 7:00 pm – 9:00 pm** **Room 1**
Opening Ceremony
Keynote Conference: The quest for a pan-influenza vaccine - **Peter**

Palese, Mount Sinai School of Medicine, NY, USA
Chair: Eurico de Arruda Neto, USP, Ribeirão Preto, SP, Brazil

9:00 pm – 11:00 pm Reception and Visit to Exhibits

Monday,
September 2

7:30 am – 8:30 am

Room 1

-Mini-course 1: Basic concepts in classical virology - **Mário Celso Sperotto Brum**, UNIPAMPA, Uruguaiana, RS, Brazil

Room 2

-Mini-course 2: Proteomic Applications in Virology - **Alessandra Vidotto**, FAMERP, São José do Rio Preto, SP, Brazil

Room 3

-Mini-course 3: Fundamentals of Virology Diagnostics – Basic Concepts in Virology Diagnostics - **Leonardo José Richtzenhain**, USP, São Paulo, SP, Brazil

Room 4

-Mini-course 4: Introduction to the general aspects of RNA virus entry, mechanisms of replication, and exit - **Davis Fernandes Ferreira** and **Luciana Jesus da Costa**, UFRJ, Rio de Janeiro, RJ, Brazil

8:30 am - 10:30 am

Room 2

Round Table 1: Assessment of Plant Virus Genetic Variability and its Role in Virus-host Interactions

-Mechanisms of plant virus evolution: from basic to applied research - **Fernando Lucas Melo**, UNB, Brasília, DF, Brazil

-Assessing the relative contribution of mutation and recombination on the genetic variability of plant virus populations - **Alison Talis Martins Lima**, UFV, Viçosa, MG, Brazil

-Proteomic as a tool to study plant virus interactions - **Nelson Arno Wulff**, Fundo de Defesa da Citricultura, Araraquara, SP, Brazil

Chair: Francisco Murilo Zerbini Jr., UFV, Viçosa, MG, Brazil

Room 3

Round Table 2: Viral Diseases in Aquaculture

- Development of immunoassays to detect infectious myonecrosis virus (IMNV) in shrimps - **Aguinaldo R. Pinto**, UFSC, Florianópolis, SC, Brazil

-Virus-host interactions and diagnostics of IPNV - **Juan Kuznar Hammarstrand**, Universidad de Valparaíso, Quinta Región de Valparaíso, Chile

-Adenoviral genomes from human and other animal hosts in shrimp - **Fernando Rosado Spilki**, Feevale, Novo Hamburgo, RS, Brazil (Chair)

Room 1

Round Table 3: Biology and Immunology of Flavivirus Infections

-Role of inflammatory mediators in dengue infection - **Daniele da Glória de Souza**, UFMG, MG, Brazil

-A tetravalent dengue nanoparticle stimulates antibody production in mice – **Luiz Felipe Leomil Coelho**, UNIFAL, Alfenas, MG, Brazil

-Bioinformatics sequence and genome analysis in HCV - **Paula Rahal**, UNESP, São José do Rio Preto, SP, Brazil (Chair)

8:30 am - 10:30 am

Room 4

Oral Presentations Human Virology - 1

Convenor: **Edison Luiz Durigon**, ICB-USP, São Paulo, SP, Brazil

10:30 am - 11:00 am

Coffee-break and Visit to Exhibits

11:00 am - 12:00 pm

Room 1

Conference 1:

Viruses in Veterinary Medicine Detected by Metagenomic Approaches - **Anne-Lie Blomstrom**, Swedish University of Agricultural Sciences, Uppsala, Sweden

Chair: Paulo Eduardo Brandão, USP, São Paulo, SP, Brazil

12:00 pm – 2:00 pm

Lunch-break and Visit to Exhibits

2:00 pm – 3:00 pm

Room 1

Conference 2:

Towards a Cure for HIV Infection - **Monsef Benkirane**, Institut de Génétique Humaine CNRS, Montpellier, France

Chair: Luciana Jesus da Costa, UFRJ, Rio de Janeiro, RJ, Brazil

**Monday,
September 2**

3:00 pm – 5:00 pm

Room 1

Round Table 4: Update on Viral Vaccines

-Enhancement of antitumor immunity by fusion of herpes simplex 1 Glycoprotein D and HPV E7 Protein - **Luís Carlos de Souza Ferreira**, ICB – USP, São Paulo, SP, Brazil

-New adjuvants for viral vaccines – **Paulo Lee Ho**, Butantan Institute, São Paulo, SP, Brazil

-News on polio vaccination – **Edson Elias Silva**, Fiocruz, Rio de Janeiro, RJ, Brazil

-Update on dengue vaccines – **Benedito Antônio Lopes da Fonseca**, FMRP-USP, Ribeirão Preto, SP, Brazil (Chair)

Room 3

Round Table 5: Emerging and Potentially Zoonotic Infectious Diseases

-Bovine spongiform encephalitis in Brazil - **Mauro Alfieri**, UEL, Londrina, PR, Brazil (Chair)

-Phylogeography of rabies virus - **Pedro Carnieli Junior**, Instituto Pasteur, São Paulo, SP, Brazil

-Hepatitis E in Brazil, a water-borne viral infection or zoonosis? - **Marcelo Alves Pinto**, Fiocruz, Rio de Janeiro, RJ, Brazil

Room 2

Round Table 6: Novel Issues on Environmental Contamination by Viruses

-Norovirus in food - **Nigel Cook**, University of Wisconsin, USA

-Virus stability in water matrices - **Christophe Gantzer**, University Henry Poincaré, Nancy, France

-Use of human gut-specific bacteriophage B124-14 as environmental marker of anthropic pollution - **Huw Taylor**, University of Brighton, England

-Novel issues on environmental contamination by viruses- **Fernando Rosado Spilki**, Feevale, Novo Hamburgo, RS, Brazil (Chair)

3:00 pm – 5:00 pm

Room 4

Oral Presentations on Basic Virology

Convenor: Davis Fernandes Ferreira, UFRJ, Rio de Janeiro, RJ, Brazil

5:00 pm - 5:30 pm

Coffee-break and Visit to Exhibits

5:30 pm – 7:00 pm

Room 2

Helio Gelli Pereira Award Oral Presentations

Chair: Maurício Lacerda Nogueira, FAMERP, São José do Rio Preto, SP, Brazil

Room 3

Career Development Workshop

-The experience of a researcher at the veterinary immunobiologicals industry: insights into the role of PhDs in Brazilian industry - **Fernando Rosado Spilki**, FEEVALE, Novo Hamburgo, RS, Brazil

-A small professional tale from a biologist: how to become a well succeeded virologist- **Paulo Lee Ho**, Butantan Institute, São Paulo, SP Brazil

-The interface between academic research and industry: search for antiviral agents - **Renato Santana de Aguiar**, UFRJ, Rio de Janeiro, RJ, Brazil

Chair: Paulo Sérgio Torres Brioso, UFRRJ, Seropédica, RJ, Brazil

5:30 pm – 7:00 pm

Room 4

Oral Presentations on Human Virology – 2 and Immunobiologicals

Convenor: Viviane Botosso, Butantan Institute, São Paulo, SP, Brazil

5:30 pm – 7:00 pm

Room 4

Oral Presentations on Environmental Virology

Convenor: Célia Regina Barardi, UFSC, Florianópolis, SC, Brazil

7:00 pm - 9:00 pm

Beat Beach Sea-side Bar

Poster Session 1

9:00 pm – 12:00 am

Evening Social/Mixer

Tuesday,
September 3

- 7:30 am – 8:30 am** **Room 1**
-**Mini-course 1:** Basic concepts in classical virology - **Mario Celso Sperotto Brum**, UNIPAMPA, Uruguaiana, RS, Brazil
- Room 2**
-**Mini-course 2:** Proteomic applications in virology - **Alessandra Vidotto**, FAMERP, São José do Rio Preto, SP, Brazil.
- Room 3**
-**Mini-course 3:** Fundamentals of virology diagnostics – Serological Diagnostics in Virology - **Leonardo José Richtzenhain**, USP, São Paulo, SP, Brazil
- Room 4**
-**Mini-course 4:** Introduction to the general aspects of RNA virus entry, mechanisms of replication, and exit - **Davis Fernandes Ferreira** and **Luciana Jesus da Costa**, UFRJ, Rio de Janeiro, RJ, Brazil
- 8:30 am - 10:30 am** **Room 3**
Round Table 7: Virus-host Molecular Interactions in Plant and Invertebrate Viruses
-Generation of infectious full-length cDNA clones of plant viruses? - **Wilhelm Jelkmann**, University of Heidelberg, Germany
-The dynamic transcriptome of a large and complex insect pathogenic virus, the baculovirus *Autographa californica* Nucleopolyhedrovirus (AcMNPV), in cells of the host *Trichoplusia ni* - **Gary Blissard**, Cornell University, Ithaca, NY, USA
-Molecular insights to strain-specific resistance to Potato virus Y in potato - **Jari Valkonen**, University of Helsinki, Finland
Chair: Bergmann Morais Ribeiro, UnB, Brasília, DF, Brazil
- Room 2**
Round Table 8: Virus-Cell Interactions
-Role of innate immunity receptors in infection and activation of endothelial cells by dengue virus – **Luciana B. de Arruda**, UFRJ, Rio de Janeiro, RJ, Brazil (chair)
-Cellular signaling pathways as target for the prospection of anti-flaviviruses therapeutics - **Cláudio Bonjardim**, UFMG, Belo Horizonte, MG, Brazil
-Biochemical analysis of distinctive and unique human respiratory syncytial virus proteins: polymerase cofactor P, M2-1 antiterminator, and nonstructural NS1 - **Gonzalo de Prat Gay**, Fundación Instituto Leloir - CONICET, Buenos Aires, Argentina
-Beyond the structural function of dengue virus capsid protein: the role of its interaction with lipids in virus entry and replication - **Andrea T. Da Poian**, UFRJ, Rio de Janeiro, RJ, Brazil
- Room 1**
Round Table 9: Phylogeography of Dengue in Brazil: The Story of the Emergence of Endemic Disease
-DEN1 and DEN2 phylogeography of in Brazil 2 - **Betania Drumond**, UFJF, MG, Brazil
-Dengue 3 phylogeography in Brazil - **Josélio Maria Galvão de Araújo**, UFRN, Natal, RN, Brazil
-DEN4 asian genotype in Brazil - **Davis Fernandes Ferreira**, UFRJ, Rio de Janeiro, RJ, Brazil
Chair: Maurício Lacerda Nogueira, FAMERP, São José do Rio Preto, SP, Brazil
- 8:30 am - 10:30 am** **Room 4**
Oral Presentations on Veterinary Virology
Convenor: Rita de Cássia Nasser Cubel Garcia, UFF, RJ, Brazil
- 10:30 am - 11:00 am** Coffee-break and Visit to the Exhibits
- 11:00 am - 12:30 pm** **Room 1**
Conference 3: Virus-Host Interaction and Invasion of the Central Nervous System - **Katherine Spindler**, University of Michigan, Ann Arbor, Michigan, USA
Chair: Eurico de Arruda Neto, USP, Ribeirão Preto, SP, Brazil
- 12:30 pm – 2:00 pm** Lunch Break and Visit to Exhibits
- 2:00 pm – 7:00 pm** FREE TIME

Tuesday, September 3	7:00 pm – 9:00 pm	Beat Beach Sea-side Bar Poster Session 2
	9:00 pm – 2:00 am	Congress Party
Wednesday, September 4	7:30 am – 8:30 am	Room 1 - Mini-course 1: Basic concepts in classical virology - Mario Celso Sperotto Brum , UNIPAMPA, Uruguaiana, RS, Brazil Room 2 - Mini-course 2: Proteomic Applications in Virology - Alessandra Vidotto , FAMERP, São José do Rio Preto, SP, Brazil. Room 3 - Mini-course 3: Fundamentals of Virology Diagnostics – Molecular Diagnostics in Virology – Fabio Gregori , USP, São Paulo, SP, Brazil Room 4 - Mini-course 4: Introduction to the general aspects of RNA virus entry, mechanisms of replication, and exit - Davis Fernandes Ferreira and Luciana Jesus da Costa , UFRJ, Rio de Janeiro, RJ, Brazil
	8:30 am - 9:30 am	Room 1 Conference 4: Advances in Potyvirus Biology - Jari Valkonen , University of Helsinki, Finland Chair: Francisco Murilo Zerbini Junior, UFV, Viçosa, MG, Brazil
	9:30 am - 10:00 am	Coffee-break and Visit to Exhibits
	10:00 am	Room 1 General Assembly of the Brazilian Society for Virology (SBV) and Helio Gelli Pereira Awards Ceremony
	Noon - 1:30 pm	Lunch Break and Visit to the Exhibits
	1:30 pm - 2:30 pm	Room 1 Conference 5: Viral and host control of vesicular stomatitis virus gene expression – Sean P. Whelan , Harvard, Boston, MA, USA Chair: Luis Lamberti Silva, USP, Ribeirão Preto, SP, Brazil
	2:30 pm - 4:30 pm	Room 3 Round Table 10: Recent Progress in Avian Virology -Avian gyrovirus 2: is it a real avian pathogen? – Ana Cláudia Franco , UFRGS, Porto Alegre, RS, Brazil -New IBV genogroups in Brazil - Nilo Ikuta , ULBRA, Canoas, RS, Brazil -Vaccinal viruses in wild birds: How come? - Clarice Weis Arns , Unicamp, Campinas, SP, Brazil (Chair)
		Room 1 Round Table 11: Viral Infections of the Central Nervous System -Arboviral infections of the CNS – Luiz Tadeu Figueiredo , USP, Ribeirão Preto, SP, Brazil -Herpesvirus infection of the CNS – Graciela Andrei , Laboratory of Virology and Chemotherapy, KU Leuven, Leuven, Belgium -Genetics of host susceptibility to CNS viral infection - Katherine Spindler , University of Michigan, Ann Arbor, MI, USA -Enteroviral CNS infections in Brazil - Edson Elias da Silva , Fiocruz, Rio de Janeiro, RJ (Chair)
		Room 2 Round Table 12: “Frontiers on HIV Host-cell Interaction and Pathogenesis -HIV-1 drug resistance acquired through superinfection – Amilcar Tanuri , UFRJ, Rio de Janeiro, RJ, Brazil -Resistance to HIV and persistence – Monsef Benkirane , Institut de Génétique Humaine CNRS, Montpellier, France -Mechanisms of reactivation of HIV latency – Renato Santana de Aguiar , UFRJ, Rio de Janeiro, RJ, Brazil (chair)
	2:30 pm - 3:40 pm	Room 4 Oral Presentations on Plant and Invertebrate Virology Convenor: Thor Vinícius Martins Fajardo, Embrapa Uva e Vinho, Bento Gonçalves, RS, Brazil

