



# ESVV2022 - draft#3 of the detailed programme

*Tuesday, 20 September 2022*

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## OPENING LECTURE

**Auditorium**

17:00 - 17:30



### Welcome address

Hans Nauwynck, Ann Martens  
Ghent University, Belgium

17:30 - 18:30



### Evolution of virus research with pseudorabies virus as model

Thomas Mettenleiter  
Friedrich-Loeffler-Institut, Germany

18:30 - 20:30



### Welcome Reception

**Artevelde Forum**

*Wednesday, 21 September 2022*

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## PLENARY SESSION I:

### Pathogenesis and Viral Immunology

*Chairs: Herman Favoreel & Benjamin Dewals*

**Auditorium**

08:30 - 09:00



### The pathogenesis of fish herpesviruses

Alain Vanderplasschen  
Liège University, Belgium

09:00 - 09:30



### The pathogenesis Marek's Disease virus

Benedikt Kaufer  
Freie Universität Berlin, Germany

09:30 - 10:00



### The intriguing interplay of PRRSV with the host immunity

Enric Mateu  
Autonomous University of Barcelona, IRTA-CReSA, Spain

10:00 - 10:30



### Towards decoding the black box of immunity in veterinary species

Artur Summerfield  
University of Bern, Switzerland

10:30 - 11:00



### Refreshment break

**Artevelde Forum**

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## 11:00 - 12:30 PARALLEL SESSION A - PATHOGENESIS

**Auditorium**

*Chair: Bénédicte Machiels*

11:00 - 11:15

Cellular telomerase RNAs and viral RNAs possess common antiapoptotic functions that enhance herpesvirus-induced tumorigenesis

*Ahmed Kheimer, Laetitia Trapp-Fragnet, and Benedikt B. Kaufer*

- 11:15 - 11:30** AIHV-1 infection causes oligoclonal expansion and activation of CD8<sup>+</sup> T lymphocytes resulting in bovine malignant catarrhal fever via interaction with T cell signaling pathway  
*Meijiao Gong, Françoise Myster, Abdulkader Azouz, Guillem Sanchez Sanchez, Shifang Li, Justine Javaux, Sylvain Leemans, Olivier Nivelles, Willem van Campe, Stefan Roels, Laurent Mostin, Thierry van den Bergh, Pierre Kerkhofs, Laurent Gillet, Andrew J. Davison, David Vermijlen, Stanislas Goriely, Tim Connelley, Alain Vanderplasschen, Benjamin G. Dewals*
- 11:30 - 11:45** Genomic Analysis and Replication Kinetics of the Closely Related EHV-1 Neuropathogenic 21P40 and Abortigenic 97P70 Strains  
*Eslam Elhanafy, Ines Zarak, Nick Vereecke, Sebastiaan Theuns, Kathlyn Laval, Hans Nauwynck*
- 11:45 - 12:00** Virus-Induced Inhibition Of Superinfection As A Means For Accelerating Fitness-Based Selection Of Cyprinid Herpesvirus 3 Single Nucleotide Variants *In Vitro* And *In Vivo*  
*Yuan Gao, Noah Bernard, Bo He, Haiyan Zhang, Salomé Desmecht, Catherine Vancsok, Maxime Boutier, Nicolás M. Suárez, Andrew J. Davison, Owen Donohoe, and Alain F.C. Vanderplasschen*
- 12:00 - 12:15** Illumination of Cyprinid Herpesvirus 2 Infectious Cycle Using *In Vivo* Bioluminescent Imaging  
*Bo He, Owen Donohoe, and Alain F.C. Vanderplasschen*
- 12:15 - 12:30** Impact of genetic diversity of the Rift Valley Fever virus, from the field isolates to a genetic determinant  
*Mehdi Chabert, Sandra Lacôte, Sreenu Vattipaly, Ana Filipe, Mohamed Bezeid Ould El Mamy, Moustapha Lo, Baba Doumbia, Philippe Marianneau, Catherine Cêtre-Sossah, Frédérick Arnaud, Maxime Ratnier*

**11:00 - 12:30** **PARALLEL SESSION B - PATHOGENESIS** **Jan Van Eyck room**  
*Chair: Marisa Arias Neira*

- 11:00 - 11:15** Degree of PCV2 uptake by porcine monocytes is strain-dependent and is associated with amino acid characteristics on the outside of the capsid  
*Yueling Ouyang, Hans J. Nauwynck*
- 11:15 - 11:30** ASFV-Host Protein Interaction Mapping Uncovers Novel Function of CP204L in Lysosome Fusion and Clustering  
*Katarzyna Dolata, Walter Fuchs, Grégory Caignard, Juliette Dupré, Katrin Pannhorst, Sandra Blome, Axel Karger*
- 11:30 - 11:45** Artificial insemination as alternative transmission route for African swine fever virus: How infected boars could efficiently spread the disease  
*Friedrichs Virginia, Carrau Garreta Tessa, Deutschmann Paul, Christopher-Hennings Jane, Reicks Darwin, Beer Martin, Blome Sandra*
- 11:45 - 12:00** Genome-wide CRISPR/Cas9 Knockout Screen in Porcine Cells to Identify Relevant Host Factors for African Swine Fever Virus Replication  
*Katrin Pannhorst, Jolene Carlson, Julia E. Hölper, Finn Grey, John Kenneth Baillie, Dirk Höper, Elisabeth Woehnke, Kati Franzke, Walter Fuchs, Thomas C. Mettenleiter*
- 12:00 - 12:15** DNAJC14 independent replication of the atypical porcine pestivirus (APPV)  
*Carina M. Reuscher, Kerstin Seitz, Lukas Schwarz, Francesco Geranio, Olaf Isken, Martin Raigel, Theresa Huber, Sandra Barth, Christiane Riedel, Anette Netsch, Katharina Zimmer, Till Rümenapf, Norbert Tautz, Benjamin Lamp*
- 12:15 - 12:30** Modeling porcine hemagglutinating encephalomyelitis virus infection in vivo and ex vivo  
*Juan Carlos Mora-Díaz, Pablo Piñeyro, Rolf Rauh, William Nelson, Zianab Sankoh, Edward Gregg, José Antonio Carrillo-Ávila, Huigang Shen, Rahul Nelli, Jeffrey Zimmerman, Luis Giménez-Lirola*

**11:00 - 12:30** **PARALLEL SESSION C - VIRAL IMMUNOLOGY** **Van Rysselbergh room**  
*Chair: Simon Graham*

- 11:00 - 11:15** *In Vitro* Recall Response to African Swine Fever Virus Reveals Immune Components Underlying Cross-protection  
*Jordi Argilagué, Laia Bosch-Camós, Uxía Alonso, Anna Esteve-Codina, Beatriz Martín-Mur, María J. Navas, Marta Muñoz, Chia-Yu Chang, Sonia Pina-Pedrero, Francesc Accensi, Lihong Liu, Boris Gavrilov, Fernando Rodríguez*
- 11:15 - 11:30** Identification of cattle antibodies that cross neutralise foot-and-mouth disease virus serotypes to improve vaccine cross protection.

*Angela W Steyn, Kristel Ramirez, Daniel Dorey-Robinson, Cristina Faralla, Katherine J Lam, Róisín McComb, Elena Likhman, William Mwangi, Claudine Porta, Eva Perez, Bryan Charleston, Sherie K Duncan, Marie Bonnet-Di Placido and John A Hammond*

- 11:30 - 11:45** Inhibition of Arsenite-Induced Stress Granules by Cyprinid Herpesvirus 3  
*Yunlong Hu, Mamadou Diallo, Alain Vanderplasschen*
- 11:45 - 12:00** Fast Isolation of Non-adherent, Lymphocyte-like Haemocytes in Shrimp for Immunological Studies during a WSSV Infection  
*Liping Zheng, Omkar Byadgi, Mostafa Rakhshaninejad Nejad, Hans Nauwynck*
- 12:00 - 12:15** Virus-host interactome high-throughput mapping to identify new factors of pathogenicity and interspecies transmission for Bluetongue virus  
*Aurore Fablet, Cindy Kundlacz, Juliette Dupré, Edouard Hirschaud, Lydie Postic, Corinne Sailleau, Emmanuel Bréard, Stéphan Zientara, Damien Vitour, Grégory Caignard*
- 12:15 - 12:30** Interplay between Foot-and-Mouth Disease Virus 3D polymerase and the type I interferon response: a contribution to viral persistence?  
*Morgan Sarry, Souheyla Benfrid, Cindy Bernelin-Cottet, Anthony Relmy, Aurore Romey, Anne-Laure Salomez, Gregory Caignard, Stephan Zientara, Damien Vitour, Labib Bakkali Kassimi, Sandra Blaise-Boisseau*

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**12:30 - 13:30**  **Lunch** **Artevelde Forum**

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**13:30 - 15:00** **PARALLEL SESSION D -PATHOGENESIS** **Auditorium**  
*Chair: Gyula Balka*

- 13:30 - 13:45** The Role of bovine ADAM17 in Pestivirus Infections and its Importance in the Pestivirus Resistance of CRIB-1 cells  
*Christiane Riedel, Marianne Zaruba, Hann-Wei Chen, Stefan Düsterhöft, Till Rümenapf*
- 13:45 - 14:00** Infection kinetics of BTV-X ITL2021 (BTV-32) in small ruminants  
*Massimo Spedicato, Giovanni Di Teodoro, Liana Teodori, Alessandra Leone, Barbara Bonfini, Maura Piscicella, Ottavio Portanti, Emanuela Rossi, Tiziana Di Febo, Alessio Lorusso, Giovanni Savini*
- 14:00 - 14:15** Subclinical PRRSV type 1 infection aggravates clinical course of *Streptococcus suis* infections in pigs  
*Norbert Stockhofe-Zurwieden, Manouk Vrieling, Jan Cornelissen, Helmi Feijten, Lisette Ruuls, Rob Zwart, Ditta Popma, Sandra Vreman*
- 14:15 - 14:30** Pathogenesis of West Caucasian and Lleida bat viruses, two divergent lyssaviruses co-circulating in a widespread migratory bat species  
*Petra Drzewnioková, Barbara Zecchin, Dino Scaravelli, Francesca Festa, Martina Castellán, Maira Zorzan, Barbara Tramontan, Andrea Lombardo, Emmanuelle Robardet, Stefania Leopardi, Paola De Benedictis*
- 14:30 - 14:45** Predicting infectious bursal disease virus pathotype: new models based on early changes in blood cell formula and bursa cells transcriptional activity  
*Molinet Annonciade, Céline Courtillon, Michel Amelot, Alassane Keita, Lucas Pierrick, Edouard Hirschaud, Yannick Blanchard, Béatrice Grasland, Nicolas Etteradossi, Sébastien Soubies*
- 14:45 - 15:00** *In vivo* and *in vitro* characterization of neurotropism of highly pathogenic influenza virus H5N8 (clade 2.3.3.4b) in chicken and duck  
*Charlotte Foret-Lucas, Pierre Bessière, Amelia Coggon, Alexandre Houffschmitt, Maxence Delverdier, Thomas Figueroa and Romain Volmer*

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**13:30 - 15:00** **PARALLEL SESSION E - PATHOGENESIS** **Jan Van Eyck room**  
*Chair: Anette Gleitze Bøtner*

- 13:30 - 13:45** SARS-CoV-2 omicron infection induces decreased viral replication and inflammation in the upper and lower respiratory tract compared to the D614G and Delta variants in the Syrian hamster model.  
*Maxime Fusade-Boyer, Hélène Huet, Adèle Gambino, Audrey St Albin, Ophélie Grad, Nicolas Meunier and Sophie Le Poder*
- 13:45 - 14:00** A deletion in the spike protein spanning the furin cleavage site alters SARS-CoV-2 virulence in K18-ACE2 mice  
*Giovanni Di Teodoro, Fabrizia Valleriani, Chiara Di Pancrazio, Flavio Sacchini, Maurilia Marcacci, Massimo Spedicato, Daniela Malatesta, Tetyana Petrova, Ottavio Portanti, Shadia Berjaoui, Emanuela Rossi, Francesco Bonfante, Alessio Lorusso.*

- 14:00 - 14:15** Molecular determinants of ASFV hemadsorption and virulence  
*Daniel Pérez-Núñez, Raquel García-Belmonte, Elena Riera, Gonzalo Vigara-Astillero, Yolanda Revilla*
- 14:15 - 14:30** Study of the potential of the *in vitro* replication capacity of porcine reproductive and respiratory syndrome virus PRRSV strains to predict their virulence *in vivo*  
*Jaime Castillo, Javier Martínez-Lobo, Javier Domínguez, Isabel Simarro, José María Castro, Concepción Revilla, Cinta Prieto*
- 14:30 - 14:45** Neuraminidase and Trypsin Treatment of Highly Passaged Feline Enterocytes Enhances the Replication of FECV Type I Strains  
*Bixia Chen, Hans Nauwynck*
- 14:45 - 15:00** The Histone-Like A104R Protein of African Swine Fever Virus is not Essential for Replication in Cell Culture  
*Walter Fuchs, Björn-Patrick Mohl, Tonny Kabuuka, Katrin Pannhorst, Günther M. Keil, Jan Hendrik Forth, Thomas C. Mettenleiter*

**13:30 - 15:00** **PARALLEL SESSION F - VIRAL IMMUNOLOGY** **Van Rysselbergh room**  
Chair: Falko Steinbach


- 13:30 - 13:45** PRRSV-induced CD8 T Cell Responses at the Maternal-Fetal Interface During Late Gestation  
*Melissa R Stas, Heinrich Kreuzmann, Kerstin H Mair, Michaela Koch, Christian Knecht, Maria Stadler, Simona Winkler, Katinka van Dongen, Masha A Razavi, Spencer N Sawyer, Clara Pernold, Sonia V Hernandez, Armin Saalmüller, Till Rümenapf, Wilhelm Gerner, and Andrea Ladinig*
- 13:45 - 14:00** Frequent infection of cats with SARS-CoV-2 irrespective of pre-existing enzootic coronavirus immunity, Brazil 2020  
*Edmilson F. de Oliveira-Filho, Otávio V. de Carvalho, Ianei O. Carneiro, Fagner D'ambroso Fernandes, Sara N. Vaz, Célia Pedroso, Lilian Gonzalez-Auza, Victor C. Urbieto, Arne Kühne, Rafaela Mayoral, Wendy K. Jo, Andrés Moreira-Soto, Chantal B. E. M. Reusken, Christian Drosten, Carlos Brites, Klaus Osterrieder, Eduardo M. Netto, Luiz E. Ristow, Rita C. Maia, Fernanda S.F. Vogel, Nadia R. Almeida, Carlos R. Franke and Jan Felix Drexler*
- 14:00 - 14:15** Cytotoxic CD4<sup>+</sup> and CD4/CD8 Double Negative T cells Correlate with Protection against PRRSV1 Transplacental Infection  
*Yanli Li, Gerard Martin-Valls, Ivan Díaz, Enric Mateu*
- 14:15 - 14:30** Porcine nasal and lung macrophage subsets isolated by FACS and LCM show different transcriptomic profiles depending on tissue origin and location  
*Dayoung Oh, Nick Vereecke, Wim Trypsteen, Sieglinde Coppens, Ward De Spiegelaere, Heesoo Song, Bert Devriendt, Jo Vandesomepele, Hans Nauwynck*
- 14:30 - 14:45** Milk lactose protects against group A rotavirus infection  
*Xiaolei Ren, Waqar Saleem, Haes Robin, Jiexiong Xie, Sebastiaan Theuns, Hans J. Nauwynck*
- 14:45 - 15:00** Alphaherpesvirus-Induced Inhibition of the m6A Writer Complex and Degradation of m6A Methylated Transcripts  
*Robert J. J. Jansens, Ruth Verhamme, Aashiq Mirza, Anthony Olarerin-George, Cliff Van Waesberghe, Samie R. Jaffrey, Herman W. Favoreel*


**15:00 - 15:30**  **Refreshment break** **Artevelde Forum**




**PLENARY SESSION II and ROUND TABLE I: Viral infections of swine - African Swine Fever**

Moderator: José Manuel Sanchez-Vizcaino

**Auditorium**

**15:30 - 16:00**  **History of African Swine Fever, Europe & Asia**  
José Manuel Sanchez-Vizcaino  
Universidad Complutense de Madrid, Spain

**16:00 - 16:15**  **African Swine Fever in Africa: outsmarting the virus with fit-for-purpose technologies**  
Gerald Misinzo  
Sokoine University of Agriculture, Tanzania

- 16:15 - 16:30**  **Pathogenesis of African Swine Fever**  
Sandra Blome  
Friedrich-Loeffler-Institut, Germany
- 16:30 - 16:45**  **Molecular basis of African Swine Fever virulence/pathogenesis**  
Linda Dixon  
The Pirbright Institute, United Kingdom
- 16:45 - 17:00**  **Vaccine development for the control of ASF; where are we and where to go?**  
Douglas Gladue  
Plum Island Animal Disease Center,  
U.S. Department of Agriculture, U.S.A.
- 17:00 - 17:30** **Discussion with audience**

**POSTER SESSION I**

**Artevelde Forum**


**17:30 - 19:00** **Posters viewing and reception with Belgian beers**


*Thursday, 22 September 2022*


**PLENARY SESSION III:**


**Epidemiology, diagnostics and vaccines**  
*Chairs: Tomasz Stadejek & Laurent Gillet*

**Auditorium**

**08:30 - 09:00**  **Epidemiology of emerging diseases**  
Norbert Nowotny  
University of Veterinary Medicine, Vienna, Austria

**09:00 - 09:30**  **Third generation sequencing, the new diagnostic power in the veterinary world**  
Sebastiaan Theuns  
PathoSense, Belgium

**09:30 - 10:00**  **Use of peptide analysis in the development of vaccines**  
Morten Nielsen  
Technical University of Denmark, Denmark

**10:00 - 10:30**  **Perspectives of mRNA vaccines in the veterinary world**  
Niek Sanders  
Ghent University, Belgium

**10:30 - 11:00**  **Refreshment break** **Artevelde Forum**

**11:00 - 12:30** **PARALLEL SESSION G -EPIDEMIOLOGY**  
*Chair: Till Rümenapf*

**Auditorium**

- 11:00 - 11:15** Intra- and Inter-Cattery Epidemiology of Feline Coronavirus in Belgium between 2018 and 2021  
*Nick Vereecke, Veerle Stroobants, Marthe Pauwels, Aisha Van den Kerkhof, Sebastiaan Theuns, Hans Nauwynck*
- 11:15 - 11:30** The Founder Variants Transmitted by Sows are the Main Source of PRRSV1 Genetic Diversity in an Unstable Infected Farm.  
*Hepzibar Clilverd, Gerard E Martín-Valls, Yanli Li, Marga Martín, Martí Cortey, Enric Mateu*
- 11:30 - 11:45** Molecular epidemiology of West Nile virus lineage 1 (WNV-L1) in Spain. An update of the last decade.  
*Pilar Aguilera-Sepúlveda, Cristina Cano-Gómez, Amalia Villalba, Rubén Villalba, Montserrat Agüero, Miguel Ángel Jiménez-Clavero, Jovita Fernández-Pinero*
- 11:45 - 12:00** Vaccination Strategy Framework Against African Swine Fever in Wild Boar  
*Marta Martínez, Jaime Bosch, Satoshi Ito, Ed van Klink, Edvins Olsevskis, Kevin Morelle, Jose Manuel Sánchez-Vizcaino*
- 12:00 - 12:15** Genetic and Antigenic Characterization of Respiratory Coronaviruses of Swine  
*Ruth Mumo, Anna Parys, Nick Vereecke, Bart Pardon, Sebastiaan Theuns, Kristien Van Reeth*
- 12:15 - 12:30** Genetically Identical Strains of Four Different Honeybee Viruses have been Determined in Bumblebee and Honeybee Positive Samples  
*Ivan Toplak, Laura Šimenc, Metka Pislak Ocepek, Danilo Bevk*

**11:00 - 12:30** **PARALLEL SESSION H - DIAGNOSTICS** **Jan Van Eyck room**  
*Chair: Davide Lelli*

- 11:00 - 11:15** Development and Validation of Four Duplex Real-Time PCR Assays for Sensitive Detection of Pathogens Associated with Equine Diarrhoea  
*Kees van Maanen, Rick Elbert, Sander Schuurman, Tara de Haan*
- 11:15 - 11:30** Diagnosis and characterization of a novel strain of EHDV-8 in Tunisia in 2021.  
*Maurilia Marcacci, Soufien Sghaier, Corinne Sailleau, Stephan Zientara, Sarah Thabet, Emmanuel Breard, Liana Teodori, Massimo Spedicato, Damien Vitour, Lydie Postic, Ottavio Portanti, Salah Hammami, Valentina Curini, Francesca Di Giallonardo, Giovanni Savini, Alessio Lorusso*
- 11:30 - 11:45** Assessing the health status of Belgian pig farms using an integrated, high-tech approach  
*Friso Griffioen, Nick Vereecke, Sieglinde Coppens, Gauthier Daneels, Jeroen Dewulf, Dominiek Maes, Sebastiaan Theuns, Hans Nauwynck*
- 11:45 - 12:00** Characterization of the Subclinical Infection of Porcine Deltacoronavirus in Grower Pigs  
*Lu Yen, Juan-Carlos Mora-Díaz, Ronaldo Magtoto, Rolf Rauh, William Nelson, Jeffrey Zimmerman, Rahul Nelli, Luis Giménez-Lirola*
- 12:00 - 12:15** Detection of Hepatitis E virus RNA in Belgian ready-to-eat pork meat and liver products  
*Tatjana Locus, Michael Peeters, Bavo Verhaegen, Koenraad Van Hoorde, Ellen Lambrecht, Thomas Vanwollegem, Steven Van Gucht*
- 12:15 - 12:30** Environmental sampling for the detection of Highly Pathogenic Avian Influenza H5 and Infectious Bronchitis Virus in poultry farms  
*Fabien Filaire, Daniel Akinsola, Laetitia Lebre, Perrine Pascal, Aurélie Secula, Charlotte Foret-Lucas, Timothée Vergne, Mathilde Paul, Guillaume Croville, Jean-Luc Guerin*

**11:00 - 12:30** **PARALLEL SESSION I - VACCINES** **Van Rysselbergh room**  
*Chair: Emmanuel Albina*

- 11:00 - 11:15** The intradermal route induces full protection in pigs immunized with the attenuated African swine fever virus (ASFV) Lv17/WB/Rie1.  
*Carmina Gallardo, Alejandro Soler, Raquel Nieto, Nadia Casado, Marisa Arias*
- 11:15 - 11:30** Comparative Evaluation of the Duration of Protective Immunity Induced by a Live Attenuated and an Inactivated Lumpy Skin Disease Virus Vaccine  
*Andy Haegeman, Ilse De Leeuw, Wannes Philips, Nick De Regge, Willem Van Campe, Laurent Mostin, Kris De Clercq*
- 11:30 - 11:45** Pathogenesis Study in Goats with Recombinant Wildtype- or Vaccine-derived PPRV Expressing Enhanced GreenFluorescentProtein  
*Phaedra Eblé, Katie Schmitz, René van Gennip, Mieke Maris, Lucien van Keulen, Rory de Vries, Rik de Swart, Piet van Rijn*
- 11:45 - 12:00** Developing a 'One Health' Nipah virus vaccine to protect animal and public health  
*Rebecca McLean, Miriam Pedrera, Nazia Thakur, Ahmed Mohamed, Sophia Hodgson, Sue Lowther, Tristan Reid, Shawn Todd, Brenton Rowe, Jemma Bergfeld, Lee Trinidad, Sarah Riddell, Sarah*

Edwards, Jean Payne, Jennifer Barr, Nick Rye, Matt Bruce, Tim Poole, Sheree Brown, Toni Dalziel, Gough Au, Megan Fisher, Rachel Layton, Teresa Lambe, Keith Chappell, Ariel Isaacs, Daniel Watterson, Mercedes Mourino, Ireen Sultana Shanta, Ayesha Siddika, Mst Noorjahan Begum, Sezanur Rahman, Abdulla Al Mamun Bhuyan, Muntasir Alam, Mohammed Ziaur Rahman, Mustafizur Rahman, Elma Tchilian, Sarah Gilbert, Paul Young, Dalan Bailey, Glenn Marsh, Simon Graham

**12:00 - 12:15** Protection conferred by a DNA vaccine against highly pathogenic avian influenza in chickens : effect of vaccine schedule

Julie Valentin, Fabienne Rauw, Fiona Ingraio, Bénédicte Lambrecht

**12:15 - 12:30** The telomeric repeats of Marek's disease virus vaccines are required for viral integration and genome maintenance

Yu You, Ahmed Kheimar, Luca D. Bertzbach, Benedikt B. Kaufner

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**12:30 - 13:30**



**Lunch**

**Artevelde Forum**

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**13:30 - 15:00** **PARALLEL SESSION J - EPIDEMIOLOGY**

**Auditorium**

Chair: Roger Maes

**13:30 - 13:45** Analysis of canine parvovirus 2 isolates from Hungary reveals heterogenous phylogenetic origin

Dávid Géza Horváth, Ervin Albert, Gyula Balka, Adám Dán

**13:45 - 14:00** An Epidemiology Model of Influenza A Virus in Wild Birds Based on Surveillance of Black-headed Gulls (*Chroicocephalus ridibundus*)

Josanne H. Verhagen, Eline A.M. Vink, Marjolein J. Poen, Frank A. Majoer, Divya Kriti, Jayeeta Dutta, Harm van Bakel, Oanh Vuong, Rachel D. Scheuer, Mariëlle van Toor, Nicola S Lewis, Nichola N Hill, Justin Bahl, Lambodhar Damodaran, Jiani Chen, Thijs Kuiken, Ron A.M. Fouchier, Mart C.M. de Jong

**14:00 - 14:15** Molecular Epidemiology of Porcine Parvovirus Type 1 (PPV1) and the Reactivity of Vaccine-induced Antisera against Historical and current PPV1 strains

Nick Vereecke, Elise Vandekerckhove, Lise Kirstine Kvisgaard, Guy Baele, Carine Boone, Marius Kunze, Lars Erik Larsen, Sebastiaan Theuns, Hans Nauwynck

**14:15 - 14:30** Insights into the evolution and pathogenesis of A3B4 reassortants of infectious bursal disease virus (IBDV)

Anna Pikula, Lester J. Perez

**14:30 - 14:45** Occurrence and characterization of Rabbit Calicivirus (RCV) strains in Italy over 20 years

Patrizia Cavadini, Davide Mugetti, Alice Vismarra, Antonio Lavazza e Lorenzo Capucci

**14:45 - 15:00** Large Scale Cross-Sectional Serosurvey of Hepatitis E Virus Infection in Belgian Pig Farms and Identification of Risk Factors for Herd Infection

Constance Wielick, Ravo Michèle Razafimahefa, Louisa Ludwig-Begall, Stefaan Ribbens, Claude Saegerman, Etienne Thiry

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**13:30 - 15:00** **PARALLEL SESSION K - Diagnostics**

**Jan Van Eyck room**

Chair: Kees van Maanen

**13:30 - 13:45** SARS-CoV-2 whole genome sequencing: evaluation of five different sequencing approaches

Valentina Curini, Massimo Ancora, Valeria Di Lollo, Silvia Scialabba, Barbara Secondini, Luigina Di Gialleonardo, Maurilia Marcacci, Marco Di Domenico, Iolanda Mangone, Alessandro De Luca, Adriano Di Pasquale, Alessio Lorusso, Cesare Cammà

**13:45 - 14:00** Detection and Localization of Atypical Porcine Pestivirus in The Reproductive Tract of a Persistently Infected Boar

Lilla Dénes, Lukas Schwarz, René Brunthaler, Sandra Högler, Gyula Balka

**14:00 - 14:15** Infectious bronchitis virus and its variants in Canada

Davor Ojkic, Emily Martin

**14:15 - 14:30** Equine Coronaviruses – a common reason for equine colic?

Moritz Stummer, Vicky Frisch, Frauke Glitz, Jessika Cavalleri, Till Rügenapf, Angelika Auer

**14:30 - 14:45** Detection of Alphaherpesvirus 1 in two horses by a metatranscriptomics approach

Lucija Jurisic, Alessio Lorusso, Addolorato Ruberto, Valentina Curini, Giovanni Di Teodoro, Francesca Di Gialleonardo, Maurilia Marcacci





- 14:45 - 15:00** Outbreak of Elephant endotheliotropic herpesvirus 6 (EEHV-6) associated disease in African elephants in a European zoo.  
*Angelika Auer, Christiane Riedel, Folko Balfanz, Annika Posautz, Azza, Abdelgawad, Jakob Trimpert, Tabitha Hoornweg, Thomas Voracek, Till Rümenapf*
- 13:30 - 15:00** **PARALLEL SESSION L - VACCINES** **Van Rysselbergh room**  
*Chair: Marylène Tignon*
- 13:30 - 13:45** A Genotype II Live Attenuated Vaccine Candidate for African Swine Fever Based on Multiple Targeted Gene Deletions or Modifications  
*Anusyah Rathakrishnan, Ana Luisa Reis, Vlad Petrovan, Katy Moffat, Chris Chiu, Yuan Lui, Shinji Ikemizu, Simon Davis, Linda Dixon*
- 13:45 - 14:00** Has the attenuation of CSFV C strain vaccine just resulted in a slow growing virus?  
*Falko Steinbach, Frederico Ferreira, Helder Nakaya, Helen Crooke*
- 14:00 - 14:15** Characterization of Protective Immune Responses in Domestic Pigs following Intradermal Immunization with the Attenuated African Swine Fever Virus (ASFV) Lv17/WB/Rie1.  
*Miriam Pedrera, Alejandro Soler, Paloma Fernández-Pacheco, Nadia Casado, Alicia Simón, María Ana García-Casado, Marisa Arias, Carmina Gallardo*
- 14:15 - 14:30** Study of the outcomes of infection with a new H1<sub>av</sub>N2 genotype of swine influenza virus that emerged in France and evaluation of vaccine protection  
*Céline Deblanc, Stéphane Quéguiner, Stéphane Gorin, Séverine Hervé, Angélique Moro, Gérald Le Diguerher, Frédéric Paboeuf, Gaëlle Simon*
- 14:30 - 14:45** Evaluation of PRRS MLV viremia and transmission for a better prevention of recombination between vaccine strains  
*Sophie Mahé, Patricia Renson, Mathieu Andraud, Mireille Le Dimna, Nicolas Rose, Frédéric Paboeuf, Olivier Bourry*
- 14:45 - 15:00** Immunogenicity and efficacy of a novel universal influenza vaccine approach against H3N2 swine influenza infection in pigs  
*Constantinos S. Kyriakis, Vasilis Pliasis, Sarah Ives, Nick Bayless, Peter J. Neasham, J. Fletcher North, Maria C. Naskou, Virginia Aida, Rachel Neto, Dave Gangemi, Jacob Glanville*

**15:00 - 15:30**  **Refreshment break** **Artevelde Forum**

**PLENARY SESSION IV and ROUND TABLE II: viral infections of horses & cattle-orbiviruses**

*Moderator: Piet van Rijn*

**Auditorium**

- 15:30 - 15:50**  **Blue tongue virus in Europe and Africa**  
Alessio Lorusso  
Istituto Zooprofilattico Sperimentale dell'Abruzzo, Italy
- 15:50 - 16:20**  **A closer look at Bluetongue virus: what structures tell us for vaccine design against Bluetongue and African Horse Sickness disease**  
Polly Roy  
London School of Hygiene & Tropical Medicine, United Kingdom
- 16:20 - 16:40**  **Disabled Infectious Single Animal (DISA) vaccine platforms for Bluetongue and African Horse Sickness**  
Piet van Rijn  
Wageningen Bioveterinary Research, The Netherlands
- 16:40 - 17:00**  **Preparedness of the pharmaceutical industry for emerging orbiviruses - what is needed**  
Mercedes Mouriño  
Zoetis Manufacturing & Research, Spain



17:00 - 17:30 Discussion with audience

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POSTER SESSION II

Artevelde Forum

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17:30 - 18:30 Posters viewing and reception with Belgian beers

18:30 - 21:00  Congress dinner Banquet room


21:00 - 24:00 Evening entertainment with Open Bar Banquet room


Friday, 23 September 2022


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PLENARY SESSION V: (Reverse) Zoonosis Auditorium  
Chairs: Lars Erik Larsen & Nick De Regge

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08:30 - 09:00  **Reverse zoonotic infections of SARS-CoV2**  
Wim van der Poel  
Wageningen Bioveterinary Research, The Netherlands

09:00 - 09:30  **Noroviruses at the interplay between veterinary and human public health**  
Etienne Thiry  
Liège University, Belgium

09:30 - 10:00  **Influenza viruses in swine and humans: dangerous liaisons?**  
Kristien Van Reeth  
Ghent University, Belgium

10:00 - 10:15 **Selected abstract 1** - Vital roles of poultry vaccination in prevention of potential H7N9 avian influenza virus pandemic  
*Pengxiang Chang, Joshua E. Sealy, Jean-Remy Sadeyen, Sushant Bhat, Munir Iqbal*

10:15 - 10:30 **Selected abstract 2** - Emergence of SARS-CoV-2 variants in farmed mink during the epidemic in Denmark, June-November 2020  
*Thomas Bruun Rasmussen, Ann Sofie Olesen, Louise Lohse, Anette Bøtner, Graham J. Belsham, Anette Boklund*

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10:30 - 11:00  Refreshment break Artevelde Forum

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11:00 - 12:30 **PARALLEL SESSION M - EPIDEMIOLOGY** Auditorium  
Chair: Constantinos Kyriakis

11:00 - 11:15 Genetic and antigenic diversity of Rotavirus A in Danish pigs  
*Nicole Goecke, Kasper Pedersen, Pia Ryt-Hansen, Nicolai Weber, Lars Erik Larsen*

11:15 - 11:30 An Equine Coronavirus Associated Epidemic of Infectious Pyrexia in Iceland  
*Vilhjálmur Svansson, Sigríður Björnsdóttir, Eggert Gunnarsson, Constance Smits, Kees van Maanen*

- 11:30 - 11:45** Detection of influenza A virus (IAV) in nasal swabs and oral fluids cross-sectionally collected in 35 Polish swine herds  
*Aleksandra Woźniak, Piotr Cybulski, Tomasz Stadejek*
- 11:45 - 12:00** Third generation nanopore sequencing of honeybee hemolymph as a new screening tool for honeybee viruses  
*Cato Van Herzele, Dirk de Graaf, Hans Nauwynck*
- 12:00 - 12:15** Infection by a highly virulent PRRSV1 strain modifies the dynamics and shedding pattern of influenza A virus in an endemic pig farm.  
*Gerard Martín-Valls, Martí Cortey, Laia Aguirre, Enric Mateu*
- 12:15 - 12:30** Circulation of Influenza A Virus in Wild Boars in the Emilia-Romagna Region (Northern Italy), between 2017-2022  
*Laura Soliani, Alice Prosperi, Elena Canelli, Laura Baioni, Valentina Gabbi, Camilla Torreggiani, Roberta Manfredi, Irene Calanchi, Giovanni Pupillo, Filippo Barsi, Patrizia Bassi, Laura Fiorentini, Matteo Frasnelli, Maria Cristina Fontana, Andrea Luppi, Chiara Chiapponi*

**11:00 - 12:30 PARALLEL SESSION N - VACCINES** **Jan Van Eyck room**  
*Chair: Yolanda Revilla*

- 11:00 - 11:15** Detection of Genotype XIV.2 Newcastle Disease Viruses in Nigeria, Antigenic Characterization and Optimization of Vaccination Strategies  
*Ismaila Shittu, Eva Mazzetto, Chika Nwosuh, Alessandra Napolitan, Andrea Fortin, Maria Varotto, Alice Fusaro, Judith Bakam, Maryam Muhammad, Francesco Bonfante, Isabella Monne, Alessio Bortolami*
- 11:15 - 11:30** Characterization of an attenuated strain of African swine fever virus providing sterilizing immunity after intramuscular or oronasal immunization  
*Olivier Bourry, Evelyne Hutet, Mireille Le Dimna, Pierrick Lucas, Yannick Blanchard, Amélie Chastagner, Frédéric Paboëuf, Marie-Frédérique Le Potier*
- 11:30 - 11:45** Responses of PRRSv Vaccination in Piglets Born from PRRSv Vaccinated, ELISA Responding and Non-Responding Sows  
*Jorian Fiers, Dominiek Maes, Marylène Tignon, Ann-Brigitte Cay*
- 11:45 - 12:00** High *in vitro* ASFV recombination rate in porcine alveolar macrophages  
*István Mészáros, Ferenc Olasz, Vivien Tamás, Tibor Magyar, Zoltán Zádori*
- 12:00 - 12:15** A single oral immunization with a replication-competent adenovirus-vectored vaccine protects mice from influenza respiratory infection  
*Emeline Goffin, Xiang Du, Silvio Hemmi, Bénédicte Machiels, Laurent Gillet*
- 12:15 - 12:30** Virulence properties of GI-23 infectious bronchitis virus isolated in Poland and efficacy of different vaccination strategies  
*Anna Lisowska, Anna Pikula, Justyna Opolska, Katarzyna Domańska-Blicharz*

**11:00 - 12:30 PARALLEL SESSION O - (REVERSE) ZOOSES** **Van Rysselbergh room**  
*Chair: Tamaš Petrović*

- 11:00 - 11:15** Fitness and neurotropism of H5NX 2.3.4.4B in ferrets, human respiratory cells and human brain organoids  
*Francesco Bonfante, Alessio Bortolami, Eva Mazzetto, Matteo Pagliari, Cecilia Laterza, Marta Vascellari, Alessandra Napolitan, Valentina Panzarin, Andrea Fortin, Alice Fusaro, Jane Budai, Isabella Monne, Nicola Elvassore, Calogero Terregino*
- 11:15 - 11:30** Isolation and Genome Characterization of Bat-borne Issyk-Kul Virus in Italy  
*Davide Lelli, Ana Moreno, Tiziana Trogu, Enrica Sozzi, Sabrina Canziani, Matteo Mauri, Luca Cavallari, Chiara Chiapponi, Antonio Lavazza*
- 11:30 - 11:45** Determination of pathogenic potential of Spanish lineage 1 and 2 WNV strains in a mouse model  
*Raúl Fernández-Delgado, Rafael Gutiérrez-López, David Romero-Trancón, Pilar Aguilera-Sepúlveda, Desirée Dafouz-Bustos, Belén Gómez-Martín, Nuria Busquets, Miguel Ángel Jiménez-Clavero, Francisco Llorente*
- 11:45 - 12:00** Vector competence of Belgian *Anopheles plumbeus* and *Culex pipiens* mosquitoes for Japanese encephalitis virus  
*Claudia Van den Eynde, Charlotte Sohier, Severine Matthijs, Nick De Regge*
- 12:00 - 12:15** Study of the Effect of Bacterially Produced Secondary Metabolites on SARS-CoV-2 (COVID-19) *in Vitro*

*Alexis C. R. Hoste, Aurélien Cugnet, Willy Smeralda, Magali Deleu, Mutien Garigliany and Philippe Jacques*

**12:15 - 12:30** Characterization of hepatitis E virus in Lithuanian human and animal populations  
*Juozas Grigas, Arnoldas Pautienius, Evelina Simkute, Indre Jasineviciute, Arunas Stankevicius*

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**12:30 - 13:30**  **Lunch** **Artevelde Forum**

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**13:30 - 14:00** **PARALLEL SESSION P - VACCINES** **Auditorium**  
*Chair: Yolanda Revilla*

**13:30 - 13:45** Oral immunization with adenovirus-vectored vaccine induces a neutralizing antibody response in mice against Canine Distemper Virus infection

*Xiang Du, Emeline Goffin, Lucie Gillard, Laurent Gillet*

**13:45 - 14:00** Bartha-K61 vaccine protects against novel Suid herpesvirus 1 strains

*Konstantinos V. Papageorgiou, Margarita Michailidou, Ioannis Grivas, Evanthia Petridou, Efthymia Stamelou, Konstantinos Efraimidis, Lei Chen, Trevor W. Drew, Spyridon K. Kritas*

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**13:30 - 14:00** **PARALLEL SESSION Q - PATHOGENESIS** **Jan Van Eyck room**  
*Chair: Tamaš Petrović*

**13:30 - 13:45** Evidence of Lumpy skin disease virus transmission from subclinically infected cattle by *Stomoxys calcitrans*

*Haegeman A., Sohler C., Mostin L., De Leeuw I., Van campe W., De Regge N., De Clercq K.*

**13:45 - 14:00** Marek's disease virus virulence genes encode circular RNAs

*Alexis S. Chasseur, Gabrielle Trozzi, Céline Istasse, Astrid Petit, Benoît Muylkens, Damien Coupeau*

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**13:30 - 14:00** **PARALLEL SESSION R - PATHOGENESIS** **Van Rysselbergh room**  
*Chair: Constantinos Kyriakis*

**13:30 - 13:45** Comparative pathogenesis of tick-borne encephalitis virus and louping ill virus in experimentally infected sheep

*Nadjah Radia Adjadj, Mara Rocchi, Willem Van Campe, Nick De Regge*

**13:45 - 14:00** Are non-coding Simbuviruses RNA structures involved in transcription termination and translation?

*Laura Bonil, Laetitia Wiggers, Hélène Dumont, Benoît Muylkens and Damien Coupeau*

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**14:00 - 15:00** **General Assembly of the European Society for Veterinary Virology** **Auditorium**

**15:00 - 15:30**  **Refreshment break** **Artevelde Forum**

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**PLENARY SESSION VI and ROUND TABLE III: Viruses in wildlife & vector-borne viral diseases**

*Moderator: Wim van der Poel*

**Auditorium**

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**15:30 - 15:45**



**Are zoonotic tick borne encephalitis and West Nile virus in Northern Europa merely rare spillovers from wildlife reservoirs?**

René Bødker

University of Copenhagen, Denmark

**15:45 - 16:00**



**Recent events in the emergence of zoonotic viral diseases in Western Europe**

Miguel Ángel Jiménez-Clavero

Animal Health Research Centre (INIA-CISA), CSIC, Spain.

**16:00 - 16:15**



**Going global: the ongoing adaptation of the Goose/Guangdong lineage of highly pathogenic avian influenza virus to wild birds**

Thijs Kuiken

Erasmus University Medical Center, Rotterdam, The Netherlands

**16:15 - 16:45**

**Discussion with audience**

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**16:45 - 17:15**

**Awards and Closing Ceremony**

**Auditorium**

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