



The Fundamental and Applied Research for Animals & Health Center is pleased to invite you to the conference of

**Professor Albert Osterhaus**  
(DVM, PhD)

**Human viruses emerging from the animal world**

18<sup>th</sup> March, 2016 at 4.30 pm  
Faculty of Veterinary Medicine  
University of Liège

1. B. L. Haagmans, J. M. van den Brand, V. S. Raj, A. Volz, P. Wohlsein, S. L. Smits, . . . and **A. D. Osterhaus**, An orthopoxvirus-based vaccine reduces virus excretion after MERS-CoV infection in dromedary camels. *Science* 351, 77 (Jan 1, 2016).
2. L. A. Reperant, L. H. van de Burgwal, E. Claassen, **A. D. Osterhaus**, Ebola: public-private partnerships. *Science* 346, 433 (Oct 24, 2014).
3. L. A. Reperant, **A. D. Osterhaus**, Dromedary MERS-CoV replicates in human respiratory tissues. *The Lancet. Respiratory medicine* 2, 779 (Oct, 2014).
4. L. A. Reperant, T. Kuiken, B. T. Grenfell, **A. D. Osterhaus**, The immune response and within-host emergence of pandemic influenza virus. *Lancet* 384, 2077 (Dec 6, 2014).
5. J. H. Kreijtz, M. Goeijenbier, F. M. Moesker, L. van den Dries, S. Goeijenbier, H. L. De Gruyter, . . . and **A. D. Osterhaus**, Safety and immunogenicity of a modified-vaccinia-virus-Ankara-based influenza A H5N1 vaccine: a randomised, double-blind phase 1/2a clinical trial. *The Lancet. Infectious diseases* 14, 1196 (Dec, 2014).
6. G. F. Rimmelzwaan, R. A. Fouchier, **A. D. Osterhaus**, Age distribution of cases caused by different influenza viruses. *The Lancet. Infectious diseases* 13, 646 (Aug, 2013).
7. A. M. Zaki, S. van Boheemen, T. M. Bestebroer, **A. D. Osterhaus**, R. A. Fouchier, Isolation of a novel coronavirus from a man with pneumonia in Saudi Arabia. *The New England journal of medicine* 367, 1814 (Nov 8, 2012).  
R. A. Fouchier, S. Herfst, **A. D. Osterhaus**, Public health and biosecurity. Restricted data on influenza H5N1 virus transmission. *Science* 335, 662 (Feb 10, 2012).
8. K. J. Stittelaar, J. Neyts, L. Naesens, G. van Amerongen, R. F. van Lavieren, A. Holy, . . . and **A. D. Osterhaus**, Antiviral treatment is more effective than smallpox vaccination upon lethal monkeypox virus infection. *Nature* 439, 745 (Feb 9, 2006).
9. T. Kuiken, F. A. Leighton, R. A. Fouchier, J. W. LeDuc, J. S. Peiris, A. Schudel, . . . and **A. D. Osterhaus**, Public health. Pathogen surveillance in animals. *Science* 309, 1680 (Sep 9, 2005).
10. D. J. Smith, A. S. Lapedes, J. C. de Jong, T. M. Bestebroer, G. F. Rimmelzwaan, **A. D. Osterhaus**, R. A. Fouchier, Mapping the antigenic and genetic evolution of influenza virus. *Science* 305, 371 (Jul 16, 2004).
11. T. Kuiken, G. Rimmelzwaan, D. van Riel, G. van Amerongen, M. Baars, R. Fouchier, **A. Osterhaus**, Avian H5N1 influenza in cats. *Science* 306, 241 (Oct 8, 2004).
12. J. S. Peiris, K. Y. Yuen, **A. D. Osterhaus**, K. Stohr, The severe acute respiratory syndrome. *The New England journal of medicine* 349, 2431 (Dec 18, 2003).
13. B. E. Martina, B. L. Haagmans, T. Kuiken, R. A. Fouchier, G. F. Rimmelzwaan, G. Van Amerongen, . . . and **A. D. Osterhaus**, Virology: SARS virus infection of cats and ferrets. *Nature* 425, 915 (Oct 30, 2003).
14. T. Kuiken, R. A. Fouchier, M. Schutten, G. F. Rimmelzwaan, G. van Amerongen, D. van Riel, . . . and **A. D. Osterhaus**, Newly discovered coronavirus as the primary cause of severe acute respiratory syndrome. *Lancet* 362, 263 (Jul 26, 2003).
15. R. A. Fouchier, T. Kuiken, M. Schutten, G. van Amerongen, G. J. van Doornum, B. G. van den Hoogen, . . . and **A. D. Osterhaus**, Aetiology: Koch's postulates fulfilled for SARS virus. *Nature* 423, 240 (May 15, 2003).
16. T. Jensen, M. van de Bildt, H. H. Dietz, T. H. Andersen, A. S. Hammer, T. Kuiken, **A. Osterhaus**, Another phocine distemper outbreak in Europe. *Science* 297, 209 (Jul 12, 2002).
17. P. S. Ross, J. G. Vos, L. S. Birnbaum, **A. D. Osterhaus**, PCBs are a health risk for humans and wildlife. *Science* 289, 1878 (Sep 15, 2000).
18. **A. D. Osterhaus**, G. F. Rimmelzwaan, B. E. Martina, T. M. Bestebroer, R. A. Fouchier, Influenza B virus in seals. *Science* 288, 1051 (May 12, 2000).



## CURRICULUM VITAE



**Prof. Albert Osterhaus** is one of the world's leading virologists. After qualifying as a veterinarian, Albert Osterhaus moved into research and graduated from Utrecht University (NL) in 1978 with a PhD in virology. His first major breakthrough came in 1998 when he identified a new morbillivirus that caused a mass die-off of seals in Northwestern Europe. In 1997, his group discovered that a Hong Kong flu strain that had killed a three years-old boy belonged to an avian influenza strain called H5N1. He was also the first scientist to show that H5N1 can be transferred into humans. In 2000, he and his team identified Influenza B virus, a type of virus that normally infects only humans – in seals off the coast of the Netherlands. In 2001, his group identified human metapneumovirus, which causes a spectrum of respiratory illnesses ranging from mild upper respiratory tract infections to severe bronchiolitis and pneumonia. In April 2003, at the height of the panic over SARS (Severe Acquired Respiratory Syndrome) in Hong Kong, he again showed his skill at moving fast to tackle a serious problem. Within three weeks he had proved that the disease was caused by a newly discovered coronavirus that resides in civet cats, other carnivorous animals or bats. Very recently, he discovered a novel coronavirus that causes a severe lower respiratory tract infection in humans of the Middle East region since 2012. His team showed that this virus, named Middle East respiratory syndrome (MERS)-CoV, is phylogenetically related to bat CoVs and that other animal species like dromedary camels may potentially act as intermediate hosts by spreading the virus to humans. He just developed a vaccine that reduces virus excretion from camels and therefore contributes to human protection. Altogether, Prof. Osterhaus is particularly interested in viruses that cross species barriers, are highly pathogenic and which cause disease globally – viruses such as HIV, SARS and MERS CoV and influenza viruses. He is a pioneer of the **One Health** thematic.

## PROGRAM

- 4.30 pm : Conference (Amphi C)
- 5.30 pm : Questions & Answers
- 6.00 pm : Drink (Salle Polyvalente)

## VENUE

University of Liège  
Faculty of Veterinary Medicine  
Building 45  
Amphitheatre Thiernesse

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