

FluResearchNet Meeting Münster

November 2 - 3, 2015

Monday, November 2, 2015

10.00 Registration
11.00 Welcome Notes

11.15 - 12.35 Session 1 "Avian Influenza"

11.15 Long-term circulation of avian influenza viruses in poultry: High virulence and immune-escape
El-Sayed M. Abd El-Whab, Greifswald – Insel Riems

11.35 Highly pathogenic avian influenza virus H5N8 - the German experience
Martin Beer, Greifswald – Insel Riems

11.55 Interaction of avian influenza virus with primary epithelial chicken gut cell cultures
Annette Kaiser, Hannover

12.15 Molecular Basis for high virulence of non-H5/H7 avian influenza viruses
Jutta Veits, Greifswald – Insel Riems

12.35 - 13.35 Lunch

13.35 - 14.55 Session 2 "Immune Response"

13.35 Interferon- λ controls the spread of influenza viruses from the upper respiratory tract to the lungs and restricts virus transmission in the mouse model
Peter Stäheli, Freiburg

13.55 Paracrine signaling by influenza virus-infected cells inhibits lung edema clearance: role of M1-polarized macrophages
Susanne Herold, Gießen

14.15 Influenzavirus and cellular immune response
Oliver Planz, Tübingen

14.35 Influenza vaccines: Old challenges and new approaches
Anke Huckriede, Groningen

14.55 – 15.30 Coffee Break

15.30 – 16.30 Poster Session

16.30 - 17.30 Session 3 "Coinfection"

- 16.30 Interferons prevent IL-1beta dependent GM-CSF in post-pneumococcal influenza infection of human lungs
Stefan Hippenstiel, Berlin
- 16.50 Viral-bacterial co-infections of the airway epithelium: interactions between influenza viruses and streptococci.
Georg Herrler, Hannover
- 17.10 Influenza virus and S. aureus co-infection
Christina Ehrhardt, Münster

17.30 - 18.00 Evening Lecture

Viral pathogenicity, a matter of sugar?
HA glycosylation and Influenza virus pathogenicity
*Eike-Roman Hrincius, St. Jude Childrens Research Hospital
Memphis, TN, USA*

18.00 Get-Together

Tuesday, November 3, 2015

9.00 - 10.20 Session 4 "Host response"

- 9.00 Function of host proteases for influenza replication and pathology
Bastian Hatesuer, Braunschweig
- 9.20 Deep Sequencing Analysis of viral RNA associated with protein kinase R during Influenza A Virus Infection
Matthias Budt, Berlin
- 9.40 Phosphorylation of the IAV NS1 protein switches-off its interferon antagonistic activity
Stephan Ludwig, Münster
- 10.00 In Silico Prediction and Experimental Confirmation of HA Residues Conferring Enhanced Human Receptor Specificity of H5N1 Influenza A Viruses
Stephan Pleschka, Gießen

10.20 - 10.50 Coffee Break

10.50 - 11.50 Session 5 "Evolution"

- 10.50 Lessons to learn from bat Influenza A-line viruses
Martin Schwemmle, Freiburg

- 11.10 Role of mutations in the hemagglutinin in the emergence of the 1968 pandemic influenza virus
Mikhail Matrosovich, Marburg
- 11.30 Adaptation of influenza virus to mammalian hosts with different genetic backgrounds
Sarah Leist, Braunschweig

11.50 – 12.15 Closing Remarks

12.15 Farewell Lunch