

## FluResearchNet Meeting Braunschweig, 26.-27. September 2011

## Monday, 26.09.2011

10.00	Registration
11.00 - 11.15	Welcome notes
	Ludwig, S. I Münster Schughart, K. I Braunschweig
Session 1: Vi	ral adaptation and host susceptibility
11.15	Key note: Molecular determinants of influenza virus host adaptation and pathogenicity  Gabriel, G. I Hamburg
11.45	Adaptation of avian influenza viruses to growth in differentiated porcine airway epithelial cells
	Punyadarsaniya, D. I Hannover
12.05	Synergistic adaptive mutations in the HA and PA lead to increased virulence of pandemic 2009 H1N1 influenza A virus in mice.  Seyer, R. I Münster
12.25	Analysis of the host genetic susceptibility to influenza A infections in mouse mutants
	Hatesuer, B. I Braunschweig
12.45	Identification of host genetic factors influencing host susceptibility to Influenza A infections.
	Nedelko, T. I Braunschweig
13.05	Long-term evolution of swine influenza A virus in Germany
	Lange, J. I Jena
13.25 - 14.30	Lunch
Session 2: Pa	thogenesis
14.30	Key note: Attenuation and Virulence of Influenza Viruses
	Stech, J. I Greifswald - Insel Riems
15.00	Characterization of the neuraminidase of the H1N1/09 pandemic influenza virus
	Matrosovich, M. I Marburg
15.20	Recombinant soluble influenza A hemagglutinins bind to cell surface sialic acids of cultured cells and tissue sections
	Sauer, AK. I Hannover
15.40	Type II pneumocytes are the major target cells for seasonal and highly pathogenic influenza A viruses in the human lung
	Wolff, T. I Berlin
16.00	Primary Human Blood-derived Macrophages Restrict Release of Infectious Viral Particles.
	Friesenhagen, J. I Hannover
16.20	Subtype-specific pathogenicity of European swine influenza viruses in mice Schmidtke, M. I Jena



#### 16.40 - 17.15 Coffee Break **Session 3: Antiviral Strategies** Standard oseltamivir treatment has no therapeutic effect on H1N1 influenza virus 17.15 A/Jena/5258/09 infection in mice Seidel, N. I Jena Antiviral activity of the MEK-inhibitor U0126 against pandemic H1N1v and highly 17.35 pathogenic avian influenza virus in vitro and in vivo Planz, O. I Tübingen Biphasic action of p38 MAPK signaling in the influenza A virus induced primary and 17.55 secondary host gene response Börgeling, Y. I Münster Host proteases and influenza infection: characterization and inhibition 18.15 Bahgat, M. M. I Braunschweig 19.30 **Get-together**



# Tuesday, 27.09.2011

Session 4: Pat	hogenesis II
09.00	Key note: HPAIV H5N1 escaping neutralisation: more than HA variation
	Beer, M. I Greifswald - Insel Riems
09.30	A single point mutation (Y89F) within the non- structural protein 1 of influenza A viruses dramatically limits lung epithelial cell tropism and virulence in mice.
	Hrincius, E. I Münster
09.50	Reassortment of wild-type H7N1 HPAIV with a H5N1 NS-segment leads to increased virulence in intravenously infected embryos of chicken and turkey
	Petersen, H. I Hannover
10.10	Restricted replication of avian influenza polymerases in mammals is rescued by adaptive mutations in NEP
	Brunotte, L. I Freiburg
10.30	Highly Pathogenic Influenza Viruses Cause an Inhibition of the Immune Response in Human Monocytes via Activation of the Rar-related Orphan Receptor alpha.
	Friesenhagen, J. I Hannover
10.50	Whole genome expression analysis as a valuable tool to host responses during the course of an influenza A virus infection
	Wilk, E. I Braunschweig
11.10-11.30	Coffee Break
Session 5: Inte	erferon System
11.30	Macrophage-expressed IFN-β mediates apoptotic alveolar epithelial injury in severe influenza virus pneumonia
	Högner, K. I Gießen
11.50	Interferon-lambda protects chicken embryos from viral infection
	Rubbenstroth, D. I Freiburg
12.10	Identification and preliminary characterization of IFNa-producing cells in virus-infected chickens
	Bender, S. I Freiburg
12.30	Rig-I activates the Phosphatidylinositol-3-kinase (PI3K) to promote efficient type I interferon production in response to influenza virus vRNA
	Ehrhardt, C. I Münster
General netwo	ork activities
12.50	Activities of the National Research Platform for Zoonoses Ludwig, S. I Münster
13.00	Discussion and closing remarks
	Ludwig, S. I Münster
13.30	Lunch



### **Poster Presentation**

P1	Analysis of the antiviral ISG15 system and its role in the replication of human and animal influenza A viruses  J. Knepper*, V. K. Weinheimer, T. Wolff
P2	Antiviral activity of the proteasome inhibitor VL-01 against Influenza A viruses E. Haasbach*, E. K. Pauli, R. Spranger, D. Mitzner, U. Schubert, R. Kircheis, O. Planz
Р3	Pandemic H1N1 influenza virus carrying a Q136K mutation in the neuraminidase gene is resistant to zanamivir but exhibits reduced fitness in vivo  D. Rubbenstroth*, M. Kaminski, and P. Stäheli*
P4	Lung Epithelium Progenitors Show Increased Proliferation, Decreased Apoptosis and are infected during Influenza Pneumonia O.R. Gottschald*, J. Quantius, W. Seeger, J. Lohmeyer, S. Herold
P5	FGF10/FGFR2b-induced alveolar epithelial repair is impaired in severe influenza virus pneumonia
	J. Quantius*, O.R. Gottschald, J. Lohmeyer, S. Herold