

u<sup>b</sup>

175  
years

<sup>b</sup>  
UNIVERSITÄT  
BERN

A pencil drawing of a mountain range with snow-capped peaks. In the foreground, a green grass blade extends from the left, with a small red ladybug with a white cross on its back perched on its tip.

4<sup>th</sup> IFN workshop  
„IFN and Infection“

Hotel Kreuz, Bern  
June 18-20, 2009

It would not have been possible to organise this IFN workshop without support. We very much appreciate the following foundations and companies for sponsoring this event.

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Universität Bern | Universität Zürich  
**vetsuisse-fakultät**

**K. A. Guillebeau-Fonds zur Förderung  
der wissenschaftlichen Forschung,  
Vetsuisse Fakultät der Universität Bern**



**Max und Elsa Beer-Brawand-Fonds,  
Universität Bern**



## Thursday, June 18 - 2009

13.30 – 13.40 **Welcome address**

13.40 – 14.40 **Keynote Lecture**

**Jürg Tschopp (Lausanne, Switzerland)**

Pattern recognition receptors

14.40 – 15.30 **Short presentations, Session 1**

**(Chair: Rick Randall)**

14.40 - 15.05 Kothlow Sonja (Munich, Germany)

NS1 proteins of pathogenic avian influenza viruses do not suppress interferon synthesis in chickens but rather block interferon action

15.05 - 15.30 Steidle Sabine (Freiburg, Germany)

NS1 Protein of Influenza A Virus: Importance of RNA- and CPSF-binding for virulence

15.30 – 16.00 **Coffee / Tea Break**

16.00 – 18.05 **Short presentations, Session 1 (continued)**

16.00 - 16.25 Hartgroves Lorian (London, UK)

Mechanisms and consequences of differential IFN induction by influenza A viruses

16.25 - 16.50 Randall Rick (St. Andrews, Scotland)

Comparisons between how parainfluenza virus type 5 and influenza A viruses interact with cells in an interferon-induced antiviral state

16.50 - 17.15 Goodbourn Steve (London, UK)

Regulation of mda-5 by paramyxoviruses

17.15 - 17.40 Pfaller Christian (Munich, Germany)

Measles V protein and inhibition of TLR-7/9 signaling

17.40 - 18.05 Conzelmann Klaus (Munich, Germany)

Rabies and measles virus IFN escape: how to trick neurons or DCs

## Friday, June 19 - 2009

09.00 – 10.40 **Short presentations, Session 2**

**(Chair: Matthias Schweizer)**

09.00 - 09.25 Schusser Benjamin (Munich, Germany)

Analysis of potential antiviral Mx activity in the chicken

09.25 - 09.50 Thiel Volker (St. Gallen, Switzerland)

Evasion of host cell type I IFN induction – an RNA-processing enzyme prevents Mda5-dependent sensing of coronaviral RNA

09.50 - 10.15 Schweizer Matthias (Bern, Switzerland)

Pestiviral persistence induced by “self - nonself” manipulation of the IFN defence

10.15 - 10.40 Weiss Siegfried (Braunschweig, Germany)

Constitutive production of IFN- $\beta$ : Role in antigen presentation and angiogenesis

10.40 – 11.10 **Coffee / Tea Break**

11.10 – 12.25 **Short presentations, Session 2 (continued)**

11.10 - 11.35 Köster Mario (Braunschweig, Germany)  
Imaging resolves the dynamics of type I and III interferons to their targets

11.35 – 12.00 Kugel Daniela (Freiburg, Germany)  
Novel bioassays for mouse type I and type III interferons

12.00 - 12.25 Hartmann Rune (Aarhus, Denmark)  
IFN-lambda is functionally an interferon but structurally related to the IL-10 family

12.30 – 14.00 **LUNCH**

14.15 – 15.55 **Short presentations, Session 3** *(Chair: Silvia Stockinger)*

14.15 - 14.40 Pavlovic Jovan (Zurich, Switzerland)  
Identification of a sequence element in the genome of SFV regulating its sensitivity to interferon

14.40 - 15.05 Shanker Vijay (Basel, Switzerland)  
Protein phosphatase 2A negatively regulates the Jak-Stat pathway

15.05 - 15.30 Luban Jeremy (Geneva, Switzerland)  
Effects of the antiretroviral TRIM5 protein on innate immune signal transduction

15.30 - 15.55 Zimmermann Albert (Düsseldorf, Germany)  
Human cytomegalovirus interference with IFN- $\gamma$  responses

15.55 – 16.30 **Coffee / Tea Break**

16.30 – 18.10 **Short presentations, Session 3 (continued)**

16.30 - 16.55 Scheu Stefanie (Düsseldorf, Germany)  
Tracking of IFN- $\beta$  expressing cells in viral and bacterial infections in vivo

16.55 - 17.20 Gratz Nina (Vienna, Austria)  
Molecular mechanisms of IFN- $\beta$  induction by infection with group A streptococcus (*Streptococcus pyogenes*)

17.20 - 17.45 Teti Giuseppe (Messina, Italy)  
Interferon beta induction by extracellular bacteria: functional role and signal transduction pathways

17.45 - 18.10 Stockinger Silvia (Vienna, Austria)  
Characterization of the interferon-producing cell in mice infected with *Listeria monocytogenes*

ca. 19.00 – ? **DINNER (Haus der Universität)**

## **Saturday, June 20 - 2009**

### **09.00 – 10.40 Short presentations, Session 4 (Chair: Thomas Michiels)**

- 09.00 - 09.25 Verbruggen Paul (Freiburg, Germany)  
Proteasomal degradation of transcriptionally active RNA polymerase II as a viral strategy to counteract host antiviral responses
- 09.25 - 09.50 Zimmer Gert (Mittelhäusern, Switzerland)  
Expression of dsRNA-binding protein E3L by a non-transmissible vesicular stomatitis virus replicon without host shut-off activity
- 09.50 - 10.15 Kröger Andrea (Braunschweig, Germany)  
Virus induced IRF-1 mediates interferon-independent antiviral effects through the induction of viperin
- 10.15 - 10.40 Sorgeloos Frédéric (Brussels, Belgium)  
RNaseL inhibition by Theiler's virus L\* protein

### **10.40 – 11.10 Coffee / Tea Break**

### **11.10 – 12.25 Short presentations, Session 4 (continued)**

- 11.10 - 11.35 Ruggli Nicolas (Mittelhäusern, Switzerland)  
A zinc-binding domain in N<sup>pro</sup> of classical swine fever virus is essential for the virus to mediate IRF3 degradation
- 11.35 – 12.00 Detje Claudia (Hannover, Germany)  
Local type I IFN receptor signaling protects against virus spread within the central nervous system
- 12.00 - 12.25 Straume Marit (Basel, Switzerland)  
Effects of acetylsalicylic acid on interferon alpha signaling

### **12.25 – 13.00 General discussion Next workshop: St. Andrews, Scotland, in 2011**

### **13.00 End of the Workshop**