



**PhD Program**  
**“Molecular Medicine”**

**Workshop**

**2010**

**Stephansstift**

**March 4<sup>th</sup> – 5<sup>th</sup>, 2010**

## **MD/PhD Committee:**

**Prof. Dr. R. E. Schmidt (*Chairman*)**

**Prof. Dr. A. Gossler**

**Prof. Dr. G. Behrens**

**Prof. Dr. M. Gaestel**

**Prof. Dr. C. Klein**

**Prof. Dr. D. Manstein**

**Prof. Dr. B. Schlegelberger**

**PD. Dr. A. Braun**

**N. Heinz, S. Müller, A. Kühl, A. Kühr**

## **Organization:**

**Prof. Dr. Reinhold E. Schmidt**

**Division of Clinical Immunology and Rheumatology**

**Tel. 532-6656**

**[immunologie@mh-hannover.de](mailto:immunologie@mh-hannover.de)**

**Dr. Susanne Kruse,**

**Marlies Daniel**

**PhD Office**

**Tel. 532-6011**

**[Kruse.susanne@mh-hannover.de](mailto:Kruse.susanne@mh-hannover.de)**

**[Daniel.marlies@mh-hannover.de](mailto:Daniel.marlies@mh-hannover.de)**

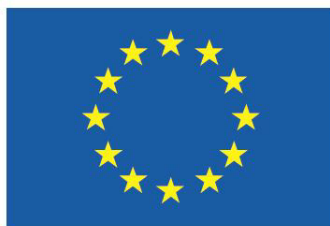
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## ***We express our thanks to the sponsors:***

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- **Martin Lawrenz, Hannover**

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**Thursday, March 4<sup>th</sup>, 2010**

**9 a.m. Welcome: Prof. Dr. R. E. Schmidt (chairman of the program)**

**Presentations of the 1<sup>st</sup> year (6 min + 9 min discussion)**

**Chairman:** Gessner, Schmidt

- 9.15 a.m. Ramesh Pandey (Kabesch, Sparwasser, Braun)**  
TLR pathway genes and genetic susceptibility for allergy and atopic diseases
- 9.30 a.m. Antoaneta Toncheva (Kabesch, Sparwasser, Dörk)**  
The role of genetic variants in the chromosome 17q21 locus in childhood asthma
- 9.45 a.m. Fareed Ahmad (Meyer-Olsen, Wedemeyer, Pöhlmann)**  
Innate Immunity in HIV-1 infection: Role of NK cell phenotype and function on HIV-1 diversity and disease progression
- 10.00 a.m. Georgios Sogkas (Gessner, Theilmeier, Klos)**  
Mechanisms of Ca<sup>2+</sup> influx in macrophages *in vitro* and *in vivo*
- 10.15 a.m. Lisa Föhse (Prinz, Hühn, ?)**  
Controlling the controllers. Towards the modification of regulatory T cell populations in experimental inflammatory pathologies

**15 min break**

**Chairman:** Lehmann, Niedenthal

- 10.45 a.m. Astrid Kühr (Kotlyarov/ Gaestel, Brand, Sodeik)**  
Covalent modifications and interacting partners of AU-rich element binding proteins
- 11.00 a.m. Erum Sughra Naqvi (Niedenthal, Gossler, Messerle)**  
Identification of specific substrates of SUMOylated components of the MAP-kinase cascades and their function in signal transduction

**11.15 a.m. Insa Hoffmann (Dammann/ Büter, Stangel, Dörk)**

Neuroprotection by neuregulin-1 in the setting of systemic inflammation

**11.30 p.m. Sumadi Lukman Anwar (Lehmann, Kubicka?, Skawran)**

Epigenetic alterations of microRNA and imprinted genes in human hepatocellular carcinoma

**11.45 a.m. Mona El Khatib (Plentz, Gossler, Wilkens)**

Analysis and treatment of the Notch signaling pathway in liver carcinoma

**12.00 p.m. Franziska Greulich (Kispert, Limbourg, Klein)**

Role of T-box transcription factor 18 in mouse heart development

***12.20 - 1.20 p.m. lunch***

**Chairman:** Moritz/ Welte

**1.20 p.m. Shashi K. Gupta (Thum, Cantz, Martin)**

Functional relevance of a microRNA cluster during cardiac remodelling

**1.35 p.m. Ruhi Phaltane (Moritz/ Modlich, Schlegelberger, Schambach)**

Humanized models to assess the genotoxicity of viral vectors in the context of hematopoietic gene therapy and *in vivo* selection

**1.50 p.m. Haiyang Yun (Heuser, Lehmann, Steinemann)**

The role of Mll5 in leukemia stem cell self renewal and differentiation

**2.05 p.m. Stephan Emmrich (Klusmann, Welte, Thum)**

Characterization of chromosome 21-encoded microRNAs in hematopoiesis and leukemogenesis

**2.20 p.m. Christine Happle (Welte/ Skokowa, Baum, Hauser)**

NETs and mechanisms of leukemogenesis in patients with severe congenital neutropenia

No talk: Mariam Al Omari

**2.35 – 3.00 p.m. coffee**

## **Presentations of the 3<sup>rd</sup> year (9 min + 11 min discussion)**

Chairman: Ungewickell

- 3.00 p.m. Ankita Minhas (Klein, Kispert, Ganser)**  
To study the role of hax1 and its interacting proteins *in vitro* and *in vivo*
- 3.20 p.m. Daniel Kotlarz (Klein, Eder, Ungewickell)**  
The role of the adaptor protein p14 in hematopoiesis and leukemia
- 3.40 p.m. Susann Müller (Martin/ Zweigerdt, Kispert, D. Hilfiker)**  
Identification of cardiogenic factors in a Rhesus monkey embryonic stem cell model

**4.15 - 6.15 p.m. poster presentation**

Chairman: O. Pabst/ Weiss

**Poster presentation of 2<sup>nd</sup> years, 10 students** (Autengruber, Bala, Jaimes, Kieneke, Köhl, Lam, May, Melhorn, Mishra, Rust)

**From 6.15 p.m. General meeting of supervisors/ lecturers and students (separate)**

**7.15 – 8.00 p.m. buffet and drinks**

**8.00 p.m. Special lecture:**

***Prof. Dr. Jochen Hühn***

Experimental Immunology, HZI, Braunschweig

*“Epigenetic control of FOXP3 expression: the key to a stable Treg lineage?”*

**Friday, March 5<sup>th</sup>, 2010**

**Presentations of the 3<sup>rd</sup> year (9 min + 11 min discussion)**

**Chairman:** Theilmeyer, Malek

- 9.00 a.m. Susanne Wolf (Schlegelberger, Stripecke, Malek)**  
Synergism of ectopic N-Ras expression and Suv39h1-deficiency in leukemogenesis
- 9.20 a.m. Adrian Schwarzer (Li, Klein, Braun)**  
Molecular characterization of altered neurotrophin signaling in acute leukemia
- 9.40 a.m. Harald Schütt (Schieffer, Theilmeyer, Klein)**  
Pharmacological inhibition of interleukin-6 (IL-6) transsignaling inhibits inflammatory effects of IL-6 and attenuates atherosclerotic lesion progression
- 10.00 a.m. Jan Larmann (Theilmeyer, Wollert, Gessner)**  
FTY720 for rapid stabilization of atherosclerotic lesions

***10.20 - 10.40 a.m. coffee***

**Chairman:** Tamura-Niemann, Stripecke

- 10.40 a.m. Mudita Pincha (Stripecke, Sodeik, Jaeckel)**  
Genetically programmed dendritic cell vaccines for melanoma immunotherapy: Longevity of survival versus immunologic potency
- 11.00 a.m. Rakesh K. Bakshi (Wedemeyer, Pöhlmann, Sauer)**  
Frequency of T cell receptor repertoire (TCR) of HCV-specific CD8 T cells in HCV seronegative individuals
- 11.20 a.m. Theodros S. Tsegaye (Pöhlmann, Wedemeyer, Schambach)**  
Molecular characterization of HIV interactions with platelets

**11.40 a.m. Sheetal R. Chettiar (Tamura N., Hauser, Gerardy-Schahn)**  
Structural and functional characterization of FMIP/THOC5 in mRNA export pathway and DNA damage signaling

**12.00 p.m. Jayendra K. Krishnaswamy (Behrens, Bruder, Tschernig)**  
Antigenic targeting of dendritic cell subsets for tolerance induction to inhaled antigens

### **Presentations of the 1<sup>st</sup> year (6 min + 9 min discussion)**

**12.20 p.m. Amit Sharma (Heuser, Pich, Li)**  
Pharmacologic strategies to overcome ATRA resistance in patients with acute myeloid leukaemia

**12.35 - 1.35 p.m. lunch**

**Chairman:** Braun, Sparwasser

### **Presentations of the 1<sup>st</sup> year (6 min + 9 min discussion)**

**1.35 p.m. Venkateswaran Ganesh (Sparwasser, Hansen, Behrens)**  
Immune mechanisms involved in suppressing asthma post infection by *Salmonella typhimurium*

**1.50 a.m. I-Na Lu (Sparwasser, Hansen, Behrens)**  
Role of dendritic cell subsets in curbing asthma pathology

### **Presentations of the 3<sup>rd</sup> year (9 min + 11 min discussion)**

**2.05 p.m. Sadaf Kasraie (Werfel, Braun, Bäumer)**  
Functional effects of Interleukin (IL)-31 in human primary keratinocytes

**2.25 p.m. Subhashree Mahapatra (Dittrich, Sparwasser, Braun)**  
Polysensitization & skin lung interplay in a mouse model of allergic skin inflammation

**2.45 p.m. Usriansyah (O. Pabst, Behrens, Weiss)**  
Analyzing oral tolerance on the basis of T cell migratory routes

**3.05 p.m. Vijaya K. Chennupati (Prinz, Hornef, J. Wedemeyer)**

Only local, not global:  $\gamma\delta$  i-IELs are sessile, tissue resident, rapid turn-over cells exhibit niche-dependent survival

**3.25 p.m. Katja Kochrube (Weiss, Valentin-Weigand, Hornef)**

Tumor colonizing bacteria – entrance, survival and physiology of *Salmonella enterica* serovar Typhimurium in the tumor

**3.45 -4.00 p.m. coffee**

**4.05 – 6.00 p.m. poster presentation**

**Chairman:** Gossler/ Gaestel

***Poster presentation of 2<sup>nd</sup> years, 10 students (Bhayadia, Chaitanya V., Godinho, Heckl, Low, Maroz, Murugan, Ripperger, Pfaff, Sultan)***

**From ~6.00 p.m. General meeting of supervisors/ lecturers and students (together)**

**7.00 p.m. Prizes for best presentation (1<sup>st</sup> year, 2<sup>nd</sup> year, 3<sup>rd</sup> year)**

**7.15 p.m. Dinner and International Evening**