



- Graduate School of Excellence -

Hannover Biomedical Research School

Master Class
“Innate Immunity”

2008

Hannover Medical School

July 10th – 11th, 2008

HBRS Committee:

R. E. Schmidt (*Dean*)

C. Baum; R. Förster; S. Suerbaum; H.J. Hauser; B. Tümmler; A. Gosler; H. Hedrich; G. Gross; M. Gaestel; T. Werfel; U. Martin

Organization:

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www.mh-hannover.de/hbrs.html

We express our thanks to the sponsors:

- **DFG “Excellence Initiative”**

Thursday, July 10th, 2008

Lecture Hall M

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

9.15 a.m. Key note lecture 1

Bruce Beutler

The Scripps Research Institute, La Jolla, USA

Innate Immune Sensing and Response: Genetic Analysis of Pathways and Mechanisms

10.15 a.m. coffee break

10.35 a.m. Key note lecture 2

Shizuo Akira

Research Institute for Microbial Diseases, Osaka University, Japan

Toll-like receptors

11.35 a.m. coffee break

11.55 a.m. Key note lecture 3

Luke O'Neill

School of Biochemistry and Immunology, Trinity College, Dublin, Ireland

Signal transduction in innate immunity

1.00 - 2.00 p.m. lunch

2.30 p.m. Three Workshops in parallel

**Seminar rooms: MD/PhD (1140), 1030, S 1400
(timing flexible)**

Presentations of students (10 min + 10 min discussion)

I. Beutler (building J4, level 1, room 1140)

participants without presentation: Lacramiora Botezatu, Anja Dregger, Vijay Chennupati, Barkha Bhatnagar

2.30 p.m. Introduction

2.35 p.m. Sabine Stegemann

Analysis of the mechanisms underlying lethal synergism between viral and bacterial infections – role of toll like receptors (TLR), especially TLR 7

2.55 p.m. Miriam Nörder

Advanced pre-clinical vaccine validation systems

3.15 p.m. Wolfgang Koestner

Evaluation of allogeneic versus autologous TCR gene transfer after hematopoietic stem cell transplantation

3.35 p.m. Nicole Dittrich

Induction of type I interferons (IFNs) by mast cells

3.55 – 4.30 p.m. coffee and discussion

4.30 p.m. Ulfert Rand

Kinetics of sequential type I-IFN induction

4.50 p.m. Namita Saran

T lineage development: competitive analysis and role of microRNAs

5.10 p.m. Rakesh Bakshi

Role of heterologous immunity for natural resistance to HCV infection

5.30 p.m. Final discussion

from 6.00 – 8.30 p.m. buffet and drinks (J4, level 1, balcony)

II. Akira (building J4, level 1, room 1030)

Presentations of students (10 min + 10 min discussion)

Without presentation: Sadaf Kasraie

2.30 p.m. Introduction

2.35 p.m. Xiangyue Zhang

The role of lymphoid tissue stromal cells in the functional organization of lymphoid organs

2.55 p.m. Henoeh Hong

Innate immunity in HIV-1 infection: impact of HIV-1 on antiviral defence mechanisms

3.15 p.m. Anchana Rathinasamy

Sphingosine-1 phosphate – a novel regulator of dendritic cell trafficking and positioning

3.35 – 4.30 p.m. coffee and discussion

4.30 p.m. Swantje Hammerschmidt

The role of stromal mesenteric lymph node cells for the generation of gut homing T cells

4.50 p.m. Usriansyah

Analyzing oral tolerance on the basis of T cell migratory routes

5.15 p.m. Final discussion

from 6.00 – 8.30 p.m. buffet and drinks (J4, level 1, balcony)

III. O'Neill (building J4, level SO (ground), room S 1400)

Presentations of students (10 min + 10 min discussion)

2.30 p.m. Introduction

2.35 p.m. Hengameh Adollahpour

The biological functions of transcription factor Gfi1 in myeloid cell differentiation and bone formation

2.55 p.m. Tamas Dolowschiak

The role of polarisation and horizontal communication during proinflammatory stimulation of epithelial cells

3.15 p.m. Johanna Pott

The role of intestinal epithelial cells in *Mycobacterium avium* subsp. *paratuberculosis* host susceptibility

3.35 – 4.15 p.m. coffee and discussion

from 4.15 p.m. short introduction of projects/or questions and discussion:

Ewa Surdziel

Thanaseelan Pushpanathan

Subhashree Mahapatra

Evgeniya Solodova

Kati Semrah

5.30 p.m. Final discussion

from 6.00 – 8.30 p.m. buffet and drinks (J4, level 1, balcony)

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9.15 p.m. Three Workshops in parallel

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(timing flexible)

Presentations of students (10 min + 10 min discussion)

I. Beutler (building J4, level 1, room 1140):

participants without presentation: Thanaseelan Pushpanathan, Subhashree Mahapatra, Evgeniya Solodova, Kati Semrah, Ewa Surdziel, Sadaf Kasraie

9.15 a.m. Tamas Dolowschiak

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9.55 a.m. Swantje Hammerschmidt

The role of stromal mesenteric lymph node cells for the generation of gut homing T cells

10.15 – 11.05 a.m. coffee and discussion

11.05 p.m. Anchana Rathinasamy

Sphingosine-1 phosphate – a novel regulator of dendritic cell trafficking and positioning

11.25 p.m. Johanna Pott

The role of intestinal epithelial cells in *Mycobacterium avium* subsp. *paratuberculosis* host susceptibility

11.50 p.m. Henoeh Hong

Innate immunity in HIV-1 infection: impact of HIV-1 on antiviral defence mechanisms

12.15 – 1.00 p.m. lunch snacks, separate in each workshop

1.00 p.m. Final discussion (*if desired*)

Lecture Hall M:

1.30 p.m. Final assembly of all participants, discussion, closing

II. Akira (building J4, level 1, room 1030):

participants without presentation: Vijay Chennupati

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Advanced pre-clinical vaccine validation systems

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Role of heterologous immunity for natural resistance to HCV infection

9.35 a.m. Hari Balaji

Autoallergic immune responses in atopic dermatitis

9.55 a.m. Xiangyue Zhang

The role of lymphoid tissue stromal cells in the functional organization of lymphoid organs

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10.45 a.m. Usriansyah

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from 11.05 p.m. short introduction of projects/or questions and discussion:

Lacramiora Botezatu; Anja Dregger; Barkha Bhatnagar

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End approx. 2.00 p.m.