

UNIVERSITÄT
**DUISBURG
ESSEN**

IRUN
International Research
Universities Network

**SYMPOSIUM ON
IMMUNE RECOGNITION OF
PATHOGENS AND TUMOURS
20-21 October 2011**

Villa Wolfsburg, Duisburg-Essen, Germany

**SHARING NEW KNOWLEDGE AND JOINING
BIOMEDICAL GRADUATES AND SCIENTISTS
ACROSS EUROPE**

PARTICIPATING IRUN PARTNERS:

**Nijmegen Centre for Molecular Life Sciences
Radboud University Nijmegen, The Netherlands**

**Glasgow Biomedical Research Centre
University of Glasgow, United Kingdom**

**Center for Molecular Biology of Inflammation
University of Münster, Germany**

**Graduate School of Biomedical Science
University of Duisburg-Essen, Germany**

PROGRAMME



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INTERNATIONAL RESEARCH UNIVERSITIES NETWORK (IRUN)

**SYMPOSIUM ON
IMMUNE RECOGNITION OF PATHOGENS AND TUMOURS**

20-21 October 2011

Duisburg-Essen, Germany

Venue:



Villa Wolfsburg

Falkenweg 6, 45478 Mülheim an der Ruhr, Germany



This symposium was organised by Sven Brandau, Ulf Dittmer and Delia Cosgrove of BIOME, University of Duisburg-Essen together with Adrian Cohen of NCMLS, Radboud University Nijmegen. We are indebted to IRUN for their financial support towards this event and would like to thank our highly esteemed keynote guests, the attending researchers from participating IRUN partner universities as well as the graduates for their individual contributions without whom this scientific initiative would not have been at all feasible.



IRUN SYMPOSIUM ON IMMUNE RECOGNITION OF PATHOGENS AND TUMOURS

Thursday 20 October 2011

10.00-10.30 *Welcoming Address*
Prof. Dr. Jan Buer
Vice Dean of Research and Young Academia, Faculty of Medicine, University of Duisburg-Essen

FIRST SESSION: BASIC PRINCIPLES OF RECOGNITION

Chaired by Prof. Dr. Sven Brandau

10.30-11.15 Prof. Dr. Stephan Ludwig: **The 2009 Flu Pandemic - lessons learned**
Center for Molecular Biology of Inflammation, University of Münster

11.15-11.45 B R E A K

11.45-12.10 Prof. Dr. Ulf Dittmer: **Too much regulation results in chronic infection**
Graduate School of Biomedical Science, University of Duisburg-Essen

Graduate Presentations

12.10-12.25 Christin Seifert: **Activity of ER aminopeptidase 1 in malignant melanoma influences the strength of the overall CD8⁺ T cell response against autologous tumour cells**

12.25-12.40 Christine Thöns: **Phenotypic and functional analysis of NK cells of HCV exposed but uninfected patients**

12.40-14.00 L U N C H

Chaired by Prof. Dr. Ulf Dittmer

14.00-14.45 Prof. Gerard Graham: **Resolution of the inflammatory response by the D6 chemokine scavenging receptor**
Glasgow Biomedical Research Centre, University of Glasgow

Chaired by Prof. Dr. Elke Winterhager

Graduate Presentations

14.45-15.00 Anja Heinemann: **The tumour suppressive microRNA-34a and microRNA-34c control the expression of the NKG2D ligand ULBP2**

15.00-15.15 Kristin Stolp: **Reprogramming human somatic cells towards pluripotency and their differentiation to hematopoietic stem and progenitor cells**

15.15-15.30 Marina Hutzler: **Overexpression of neuropilin-1 impairs CD4⁺ T cell function**

15.30-15.55 Prof. Dr. Irma Joosten: **Regulatory T cells, for better or for worse**
Nijmegen Centre for Molecular Life Sciences, Radboud University Nijmegen

15.55-16.15 B R E A K

16.15-17.00 Prof. Dr. Reinhard Fässler: **A tale of an integrin tail**
Max Planck Institute of Biochemistry, Martinsried

17.00-19.30 Graduate Poster Presentations (with drinks and canapés)

Guest of Honour:
Prof. em. Robert Huber
Nobel Laureate in Chemistry

19.30 D I N N E R A N D E V E N I N G P R O G A M M E

22.00 Chartered bus for BIOME members from Villa Wolfsburg to Universitätsklinikum Essen
– Essen Hbf. – Essen Campus

Friday 21 October 2011

SECOND SESSION: IMMUNE EVASION IN INFECTION AND CANCER

NCMLS Poster Presentation (during the breaks)

Jurjen Tel: **The potency of human plasmacytoid dendritic cells to induce immune responses in melanoma patients**

Chaired by Dr. Hannes Klump

09.00-09.45 Dr. Andreas Krueger: **Early T cell development - migration and commitment**
Centre for Laboratory Medicine, Hannover Medical School

09.45-10.10 Prof. Dr. Gosse Adema: **Dendritic cells and regulatory T cells in the immunotherapy of cancer**
Nijmegen Centre for Molecular Life Sciences, Radboud University Nijmegen

Graduate Presentations

10.10-10.25 Ilseyar Akhmetzyanova: **The local T cell response in tumour development: biological role of cytotoxic T cells and regulatory T cells**

10.25-10.40 Clarissa Wild: **Human tumour-induced Treg and naturally occurring Treg differentially affect NK cells activated by interleukin-2 or target cells**

10.40-11.00 B R E A K

Chaired by Prof. Dr. Cornelia Hardt

11.00-11.25 Prof. Dr. Sven Brandau: **Immunoregulation in the tumour host**
Graduate School of Biomedical Science, University of Duisburg-Essen

Graduate Presentations

- 11.25-11.40 Katrin Moses: **Modulation of myeloid cells by tumour-derived macrophage migration inhibitory factor (MIF) in head and neck cancer**
- 11.40-11.55 Ralph Klose: **The effect of myeloid cell derived vascular endothelial growth factor on tumour relapse after cytotoxic therapy**
- 11.55-12.10 Stefanie Rost: **Studying the incidence of a somatic NOTCH1 PEST domain mutation in the Essen cohort of chronic lymphocytic leukaemia**

12.10-13.30 L U N C H

THIRD SESSION: VACCINATION AND IMMUNOTHERAPY

Chaired by Dr. Wiebke Hansen

- 13.30-13.55 Dr. Joachim Göthert: **The role of host stromal cells in promoting tumorigenesis**
Graduate School of Biomedical Science, University of Duisburg-Essen

Graduate Presentations

- 13.55-14.10 Nora Mancke: **Regulation of the effector CD4⁺ T cell function during acute retroviral infection**
- 14.10-14.25 Philipp Gödel: **Co-administration of an IL15-encoding adenoviral vector modifies the immune response to an anti-retroviral vaccine**
- 14.25-14.40 Katrin Schöneweis: **Inhibitor of hepadnaviral replication by siRNA silencing in chronically WHV-infected woodchucks**
- 14.40-14.55 Olena Brovko: **Antibodies against WHV preS1-derived peptides are protective and virus-neutralizing**

15.00-15.30 B R E A K

Chaired by Dr. Alexandra Gellhaus

Graduate Presentation

- 15.30-15.45 Kathrin Händschke: **Vav-iCre mediated deletion of the von Hippel Lindau gene does not alter the cell cycle status of hematopoietic stem cells *in vivo***

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- 16.00-16.25 Prof. Dr. Jolanda de Vries: **Dendritic cell vaccination in cancer patients**
Nijmegen Centre for Molecular Life Sciences, Radboud University Nijmegen

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- 16.25-16.45 *Closing Address*
Prof. Dr. Jörg Schröder
Vice Rector for Research, Junior Academic Staff and Knowledge Transfer, University of Duisburg-Essen
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GRADUATE POSTER PRESENTATIONS WITH ROBERT HUBER

Thursday Evening, 20 October 2011

Janine Duppach:

An acute murine cytomegalovirus infection significantly enhanced Friend virus (FV) load in persistently FV infected mice

Corinna Göbel:

Identification and molecular characterization of resistance mechanisms against cellular immune effectors to optimize cancer immunotherapies

Anita Hollenbeck:

Genetic modification of the oxygen-sensing pathway alters the development of early thymic progenitors

Sören Jansen:

Identification of novel factors controlling the decision of self-renewal versus differentiation of hematopoietic stem- and progenitor cells

Nils Jost:

The role of CD4⁺Foxp3⁺ regulatory T cells in the course of murine cytomegalovirus infection

Stephanie Kaiser:

Investigating the interaction between the gap junction channel protein Connexin 31 and the transcription factor AP-2γ for trophoblast lineage development

Friederike Kipkeew:

Establishment of an *in vitro* co-culture model to investigate the regulation of trophoblast invasion by the CCN proteins CYR61 (CCN1) and NOV (CCN3)

Johanna Klein:

Optimization of an orthotopic murine model of head and neck squamous cell carcinoma in fully immunocompetent mice – role of toll-like-receptor 4 expressed on host cells

Britta Kraczyk:

Regulatory T cells in humans: purity and functional efficiency

Lena Kunst:

Assessing the role of the protease Taspase1 for the molecular function of Myosin1f

Milena Lange:

A new vaccine strategy for HCV: presentation of hepatitis C virus hypervariable region 1 on HBV capsid-like particles

Stefan Radtke:

Establishment of an extended *in vitro* assay to detect the most primitive human hematopoietic cells at a clonal level

Marianne Ruhl:

The interaction of mutations in the proximity and inside a novel HLA-B15 epitope in NS5b causes a compensatory effect

Kathrin Skibbe:

The proapoptotic protein Bim is not differentially regulated in CD8⁺ T cells from resolved or chronic HCV infection

Roman Tatura:

Quantifying Regulatory T cells with a methylation sensitive qRT-PCR assay (QAMA) of FOXP3-TSDR compared to flow cytometry in septic patients (CD4⁺CD25⁺CD127⁺)

Linda van den Berg:

Identification of candidate genes in the Mss4-locus on RNO6 causally involved in the resistance of female BDIV rats towards chemically induced MPNSTs

Tim Philipp Wehrs:

Development of adoptive, antigen-specific cell therapies for treatment of human papillomavirus positive head and neck cancers

Clarissa Wild:

The endogenous danger signal HMGB1 promotes regulatory T cell function in healthy donors and patients with head and neck cancer

Melanie Zuk:

Reprogramming cells of the nonhuman primate common marmoset towards pluripotency

