

10:30	<b>Prof. Florian Klein, University Hospital Köln</b> Evaluating antibody-mediated therapy approaches in HIV-1 infection
11:00	Coffee break
	<b>Topic: HBV and HCV (Part 2)</b> chair: Dongliang Yang
11:30	<b>Prof. Sandra Ciesek, Institute for Virology, Essen</b> Expanding the donor pool-decontamination of HCV positive kidneys with methylene blue
12:00	<b>Prof. Heiner Wedemeyer, Hannover Medical School</b> Immunological consequences of clearance of a persistent infection: Lessons learned from hepatitis C
	<b>Topic: Viral Systems</b> chair: Ruth Bröring
12:30	<b>Prof. Christian Münz, University of Zürich</b> Infection and immune control of human oncogenic gamma-herpes viruses in vivo
13:00	Lunch break
14:00	<b>Dr. Kathrin Sutter, Institute for Virology, Essen</b> Differentially regulated effector functions of antigen-specific CD8+ T cells by IFN $\alpha$ subtypes
14:30	<b>Prof. Karl Lang, Institute of Immunology, Essen</b> Enforced viral replication determines outcome of disease
15:00	<b>Prof. Astrid Westendorf, Med. Microbiology, Essen</b> Impact of type I interferons on nanoparticle-based vaccination against chronic retroviral infection
15:30	<b>Prof. Dr. Matthias Gunzer, Exp. Immun. and Imaging, Essen</b> The bone marrow as site for innate and adaptive immunity
16:00	Coffee break
16:30	<b>Prof. Dr. Mirko Trilling, Institute for Virology, Essen</b> From immune evasion to antiviral drugs and vaccines
	<b>Topic: Retroviruses (Part 3)</b> chair: Ulf Dittmer
17:00	<b>Prof. Jan Münch, University Hospital Ulm</b> Role of semen polyamines in innate immunity and sexual HIV-1 transmission
17:30	<b>Summary and Fare Well by Prof. Ulf Dittmer</b>
17:45	End of Day 2. Transfer to „Dampfe“ Borbeck (guest speakers and registered TRR60 members)

[www.uni-due.de/trr60](http://www.uni-due.de/trr60)



**Venue (7 and 8 November):**  
University Hospital Essen  
Robert-Koch-Haus (RKH)  
Virchowstr. 179, 45147 Essen



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# TRR60 International Symposium

## New approaches to prevent or cure chronic viral infections



**6-8 November 2017**  
**Essen, Germany**



## Welcome !

At the end of the 2nd funding period of our joint Sino-German Collaborative Research Center Transregio 60 **“Mutual Interaction of chronic viruses with cells of the immune system: from fundamental research to immunotherapy and vaccination”** we have the great pleasure of welcoming you to our international symposium.

The TRR60 studies the interaction of the immune system with several different viruses that establish chronic infections in their hosts. These studies have provided new concepts of immune regulation and dysregulation in chronic virus infections that can now be utilized for therapeutic approaches and vaccine development. For the next funding period we will exclusively focus on HIV and HBV because therapeutic cure is very rarely achieved for these two chronic infections. The special feature of HBV and retroviruses that makes it so difficult to achieve cure is the reservoir of the virus. Both viruses have persistent forms of their genome, which serve as a template for virus production and cannot be targeted by current direct-acting antiviral drugs. Thus, a successful therapy must also address the question of how to tackle the viral reservoir. Now is the time to test novel immunotherapy options, especially combination therapies, in preclinical models of infectious diseases. Some of the possible new targets for immunotherapy were first described to play a role in infectious diseases by the PIs of the TRR60. The overall aim of the TRR60 project is to develop novel immunotherapies or combination therapies to achieve complete or functional cure of chronic HIV and HBV infections.

On this occasion we are presenting the exciting research results of the joint Sino-German collaboration which started in 2009 and sharing them with the international research community in the field of chronic viral infections. We are looking forward to your fruitful contributions and insights !

Yours

Ulf Dittmer

## Monday, 6 November 2017 (at LLZ)

### Venue:

University Hospital Essen, Lehr- und Lernzentrum LLZ  
Virchowstraße 163a, 45147 Essen



18:00	<b>Welcome by Prof. Ulf Dittmer</b> Speaker of the TRR60, Institute for Virology, Essen
	<b>Keynote talk</b>
	<b>Prof. Barbara Rehermann, National Institutes of Health, Bethesda</b> Differential contribution of viral infection and gastrointestinal microbiota to local and systemic immune responses
18:45	<b>Reception at „Lehr und Lern-Zentrum“</b>

## Tuesday, 7 November 2017 (at RKH)

	<b>Topic: HBV and HCV (Part 1)</b> <b>Chair: Michael Roggendorf</b>
9:00	<b>Prof. Dongliang Yang, HUST, Wuhan</b> New immune determinants for effective intrahepatic anti-HBV CTL responses
9:30	<b>Prof. Robert Thimme, University Hospital Freiburg</b> Heterogeneity of HBV- and HCV-specific CD8+ T cells in chronic viral hepatitis
10:00	<b>Prof. Jörg Timm, Institute of Virology, Düsseldorf</b> Impact of viral and host genetic diversity on the T cell immune response against Hepatitis B Virus
10:30	Coffee break

11:00	<b>Prof. Xin Zheng, HUST, Wuhan</b> Bacterial infection in acute-on-chronic liver failure
11:30	<b>Prof. Mengji Lu, Institute for Virology, Essen</b> TLR-mediated innate immunity for control of hepatitis B virus infection
12:00	<b>Prof. Youhua Xie, Fudan University, Shanghai</b> Cytokines as potent regulators of viral clearance in Hepatitis B virus persistent mice
12:30	<b>Prof. Hong Tang, Institut Pasteur, Shanghai</b> Reversal of NK tolerance clears HCV infection in humanized mice
13:00	Lunch break
	<b>Topic: Retroviruses (Part 1)</b> <b>chair: Mirko Trilling</b>
14:00	<b>Prof. Ulf Dittmer, Institute for Virology, Essen</b> Regulatory T cells in retroviral infection
14:30	<b>Dr. Kim Hasenkrug, NIAID/DIR, Hamilton, Montana</b> HIV cure studies using a new humanized mouse model
15:00	<b>Prof. Hendrik Streeck, Institute for HIV Research, Essen</b> Shut down of T cell activity in chronic treated HIV infection
15:30	<b>Dr. Michael Eller, MHRP, Bethesda</b> Natural killer cell engagement through early acute HIV-1 infection
16:00	Coffee break
16:30	<b>Prof. Mario Santiago, University of Colorado, Denver</b> The transcriptome of HIV-1 infected intestinal CD4+ T cells exposed to enteric bacteria
17:00	<b>Prof. Ben Berkhout, Academic Medical Center, Amsterdam</b> A combinatorial CRISPR-Cas9 attack on HIV-1 DNA extinguishes all infectious provirus in infected T cell cultures
17:30	End of Day 1. Transfer to World Heritage Site „Zeche Zollverein“. Speakers' Dinner at „Kokerei Café“. For TRR60 postdocs and students : Dinner and social evening at „Unperfekthaus“.

## Wednesday, 8 November 2017 (at RKH)

	<b>Topic: Retroviruses (Part 2)</b> <b>chair: Wibke Bayer</b>
9:00	<b>Prof. Frank Kirchhoff, University Hospital Ulm</b> Novel restriction factors of HIV and other viral pathogens
9:30	<b>Dr. Mark Connors, National Institutes of Health, Bethesda</b> Qualitative features of an effective immune response to HIV-1
10:00	<b>Prof. Oliver Fackler, University Hospital Heidelberg</b> 3D environments shape modes of HIV-1 spread