

## Preliminary Program

**3rd Workshop „Viral Vectors“ of the Gesellschaft für Virologie (GfV)**  
and  
**12th Annual Meeting of the German Society of Gene Therapy**  
from June 29th - July 2nd 2005  
at the Institute of Virology and Immunobiology in Würzburg

### Venue:

Lecture Hall at the  
Institute of Virology and Immunobiology  
Versbacher Strasse 7  
D-97078 Würzburg  
- Germany -

### 3rd Workshop „Viral Vectors“ of the Gesellschaft für Virologie (GfV)

#### Wednesday, 29.06.2005

01:00 pm - 01:15 pm **Welcome address**

Axel Rethwilm, Tagungspräsident  
Toni Cathomen, Sprecher des AK "Virale Vektoren" der GfV

01:15 pm - 02:15 pm **Session 1: Adenoviral Vectors**

*Chair: Stefan Kochanek, Ulm*

#### Plenary talk

Florian Kreppel, Ulm (45')

"Combined genetic and chemical capsid modifications enable flexible and efficient de- and retargeting of adenovirus gene transfer vectors"

Miriam Svorcova, Köln (15')

"Single adenoviral vectors for regulated liver specific gene transfer"

02:15 pm - 04:30 pm **Session 2: AAV Vectors**

*Chair: Toni Chomen, Berlin*

#### Plenary talk

Hildegard Büning (45')

"AAV - a promising vector with secrets"

03:00 pm - 03:30 pm coffee break

Regine Heilbronn, Berlin (15')

"Mechanisms of Adeno-Associated Virus (AAV) persistence"

Luca Perabò, München (15')

"Directed Evolution of Adeno-Associated Virus (AAV) Vectors for Human Gene Therapy"

Oliver J. Müller, Heidelberg (15')

"Improved cardiac gene transfer by transcriptional and transductional targeting of adeno-associated viral vectors"

Markus Hildinger, Napoli (15')

"AAV2/5-mediated gene transfer: The lung as protein factory"

04:30 pm - 06:00 pm **Session 3: New Vector Systems and Non-viral Gene Delivery**

*Chair: Axel Rethwilm, Würzburg*

Plenary talk

Zoltan Ivics (45´)

"Sleeping beauty: Evolution, mechanism and application of DNA transposable elements for gene transfer in vertebrates"

Gregor Ebert (15´)

"Hepatitis B Virus Vectors: Enlarged Transgene Capacity and Variation of Viral Envelope"

Frank Wucherpfenning (15´)

"Development of rhadinovirus-based episomal vectors"

Ina Rothenaigner (15´)

"Cell-specific gene expression in human neural stem cells using foamy viral vectors"

**Thursday, 30.06.2005**

09:00 am - 10:00 am **Session 3: New Vector Systems and Non-viral Gene Delivery**

*Chair: Axel Rethwilm, Würzburg*

Stefan Finke (45´)

"Negative Strand RNA Virus Vectors: Potential for vaccine development and gene therapy"

Eberhard Hildt (15´)

"Efficient gene transfer into primary human hepatocytes using cell permeable virus like particles"

10:00 am - 05:00 pm **Session 4: Retroviruses**

*Chair: Jens Bohne, Hannover*

Plenary talk

Andreas Hofmann (15´)

"Epigenetic regulation of lentiviral transgene vectors"

Sabine Brandt (15´)

"The influence of the R-region on packaging of the SIV genome"

Thomas Grunwald (15´)

"Reduced mobilization of RRE-deficient lentiviral vectors"

Christian Metzl (15´)

"Transcriptionally regulated, replication competent retroviral vectors for cancer gene therapy"

Simone Reuss (15´)

"Development of a suspension packaging cell line for the simplified generation of high-titer TCR-retrovirus vector particles"

Dagmar Wirth (15´)

"Predictable and stable titers from retroviral producer cell lines by Flp mediated site-specific integration of therapeutic vectors"

11:30 am - 01:00 pm lunch break

Francois-Luic Cosset (45')

"Surface-modified lentiviral vectors: Assembly mechanisms, engineering and properties"

Hrvoje Miletic (15')

"Efficient transduction and therapy of experimental glioma by lentiviral vectors pseudotyped with LCMV glycoproteins"

Christian Buchholz (15')

"Retroviral display and directed evolution as novel tools in vector development"

Felix Hermann (15')

"Entry inhibitory genes for HIV- gene therapy"

Katja Sliva (15')

"Replication competent MLV as in vivo transfer vehicle for siRNA for functional genomics and cancer therapy"

Karoline Lipnik (15')

"Generation of a retroviral vector that confers hypoxia and radiation-inducible, breast cell-specific expression of transferred genes"

03:00 pm - 03:30 pm coffee break

Ali Nowrouzi (15')

"The foamy virus integration pattern"

Andrea Wolkerstorfer (15')

"A semi-replicating retroviral vector system for efficient evaluation of promoter specificity"

Mike Themis (45')

"A potential in vivo model to test for the safety of lentivirus gene therapy vectors"

## **12th Annual meeting of the German Society of Gene Therapy**

**Friday, 01.07.2005**

09:15 am - 09:30 am **Welcome address**

Michael Hallek

09:30 am - 11:30 am **Session 5: Stem Cells, Cancer and Immune Therapy**

*Chair: Christoph Baum, Hannover and Axel Rethwilm, Würzburg*

Axel Schambach (15')

"Equal potency of gammaretroviral and lentiviral SIN vectors for expression of O<sup>6</sup>-methylguanine-DNA-methyltransferase in bone marrow cells"

Farastuk Bozorgmehr (15')

"Quantitative real time PCR analysis of MDR1 transduced rhesus macaque hematopoietic stem cells shows no indication for proliferative advantage after long-term follow-up"

Roland Zahn (15')

"Repopulating capacity of transduced T cells in mice"

Jens Bohne (15')

"New cell culture assays reveal that retroviral SIN vectors are less potent insertional mutagens than their LTR-driven counterparts"

10:30 am - 10:45 am Short break

Johannes Lengler (15´)

"Effects of the cytochrome P450 reductase on cytochrome P450 2B1 activity for suicide gene therapy"

Marlon Veldwijk (15´)

"Radioprotection of normal tissue cells by transfer of the human superoxide-dismutase gene"

Ina Rattmann (15´)

"Retroviral gene transfer of cytidine deaminase mediates protection of murine hematopoiesis from cytarabine toxicity in vivo"

11:30 am - 01:00 pm lunch break

01:00 pm - 03:00 pm **Discussion of DFG SPP 1230**

03:00 pm - 04:15 pm **Session 6: Clinical Studies**

*Chair: Gabriele Dreier, Freiburg*

Gabriele Dreier (20´)

Eva Weissinger (45´)

"Suicide gene transfer to control graft versus host disease and modulate graft versus leukemia effects after allogeneic T-cell depleted stem cell transplantation"

04:05 pm - 04:35 pm coffee break

Manuel Grez (45´)

"Update on the X-CGD gene therapy phase I clinical study"

Dorothee von Laer (15´)

"Therapy of HIV-infection with gene modified T-cells"

05:30 pm

**DG-GT General Assembly**

08:00 pm

**Garden party**

### **Saturday, 02.07.2005**

09:30 am - 12:00 pm **Session 7: New Clinical Developments and Musculo-Skeletal Gene Transfer**

*Chair: Michael Hallek, Köln*

Charles Coutelle (45´)

"Towards prevention of severe genetic disease by in utero gene therapy "

Holm Schneider (15´)

"Transgene-activated mesenchymal cells for articular cartilage repair: A comparison of primary bone marrow-, perichondrium/periosteum- and fat-derived cells"

Andree Steinert (30´)

Ulf Müller-Ladner (45´)

"Gene transfer strategies in the SCID mouse model for rheumatoid arthritis"