



DG-GT e.V.

Deutsche Gesellschaft
für Gentherapie e.V.

Summer School 2010

The Hematopoietic System as Tool and Target for Gene Therapy

8.-10. September 2010
CMMC Research Building Cologne
University of Cologne

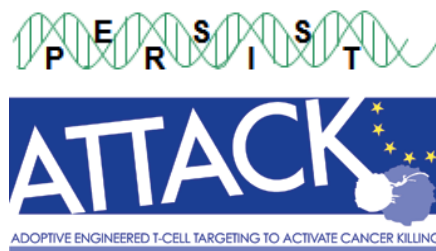
In collaboration with

The DFG Research Priority Program 1230

The EU Framework Program “PERSIST “

The EU Framework Program “ATTACK”

Center for Molecular Medicine Cologne (CMMC)



Organizing committee:

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General Remarks:

Participants:

- MD and PhD students
- Certificate of Attendance will be provided

Registration:

- Participation is free of charge
- Deadline for registration 15. August 2010
- Please register at hildegard.buening@uk-koeln.de

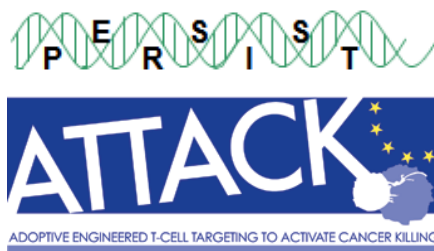
Location:



Center for Molecular Medicine Cologne (CMMC)
CMMC-Research Building
University of Cologne
Robert-Koch-Str. 21
50931 Cologne
www.zmmk.uni-koeln.de

For directions please visit:

<http://www.medizin.uni-koeln.de/zb/zik/anfahrt>



Preliminary Program – Summer School 2010

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September 8, 2010

14.00 – 14.15 *Welcoming*

Gene Transfer and Maintenance – part I

14.15 – 14.55 Retroviral vectors: Converting an infectious agent into an efficient gene therapy tool

Axel Schambach

*Dept. Experimental Hematology
Hannover Medical School*

14.55 – 15.35 Lentiviral vectors and the hematopoietic system

Sabrina Kneissl

*Viral Gene Transfer Medicinal Products
Paul-Ehrlich-Institute*

15.35 – 16.00 *Coffee Break*

16.00 – 16.40 Adeno-Associated Viral Vectors – a story of natural serotypes and artificial particles

Hildegard Büning

*Dept. I of Internal Medicine and Center for Molecular Medicine
Cologne
University of Cologne*

16.40 – 17.20 Gene transfer into cells of the hematopoietic system with adenovirus-based vectors: why and how?

Florian Kreppel

*Dept. of Gene Therapy
University of Ulm*

17.20 – 18.00 Nonviral gene delivery systems: how to improve efficiency of delivery and transgene expression

Manfred Ogris

Dept. of Pharmacy

LMU Munich

September 9, 2010

Gene Transfer and Maintenance – part II

9.00 – 9.40 Episomal Maintenance

Wolfgang Hammerschmidt

Helmholtz Center Munich

German Research Center for Environmental Health (GmbH) -

Haematologikum

9.40 – 10.20 Therapeutic genome surgery: Zinc-finger nucleases and more

Toni Cathomen

Dept. Experimental Hematology

Hannover Medical School

10.20 – 10.00 Transposon systems for stable gene transfer and expression

Zoltan Ivics

Max Delbrück Center for Molecular Medicine

Berlin

11.00 – 11.30 *Coffee Break*

The Hematopoietic System

11.30 – 12.10 The hematopoietic system: options and challenges for gene therapy

Christopher Baum

Dept. Experimental Hematology

Hannover Medical School

12.10 – 12.50 Stem cells for research and immunotherapy

Lilian Stärck

Dept. Cell Biology and Gene Therapy

Max Delbrück Centrum

12.50 – 14.00 *Lunch Break*

- 14.00 – 14.40 Do CARs need a driver license? Engineering T cells with recombinant T cell receptors
Hinrich Abken
*Dept. I of Internal Medicine and Center for Molecular Medicine
Cologne
University of Cologne*
- 14.40 – 15.20 Dissecting and manipulating tumor-specific T cell responses
Ton Schumacher
*Dept. of Immunology
The Netherlands Cancer Institute*
- 15.20 – 15.50 *Coffee Break*
- 15.50 – 16.30 Pluripotency-derived hematopoiesis
Claudia Lengerke
*Dept. II of Internal Medicine
University Hospital Tübingen*
- Safety – Toxicity – Methods**
- 16.30 – 17.10 Humanized mouse models for HIV Gene Therapy
Janine Kimpel
*Georg – Speyer - Haus
Frankfurt*
- 17.10 – 17.50 Clonality Analysis in Clinical Gene Therapy
Manfred Schmidt
*Dept. of Translational Oncology
National Center for Tumor Diseases (NCT)
Heidelberg*
- 17.50 – 18.30 In vitro and in vivo Models to assess gene therapy toxicity
Ute Modrich
*Dept. Experimental Hematology
Hannover Medical School*
- 18.30 – Open End *Social Event*

September 10, 2010

Clinical Application and Disease Models

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| 9.00 – 9.40 | The CGD Experience
Manuel Grez
<i>Georg - Speyer - Haus</i>
<i>Frankfurt</i> |
| 9.40 – 10.20 | Gene Therapy for the treatment of SCID
Steven Howe
<i>Wolfson Centre for Gene Therapy</i>
<i>Institute of Child Health</i>
<i>London</i> |
| 10.20 – 11.00 | Wiskott-Aldrich-Syndrome
Christoph Klein
<i>Dept. of Pediatric Hematology/Oncology</i>
<i>Hannover Medical School</i> |
| 11.00 – 11.40 | pending |
| 11.40 – 12.00 | <i>Concluding Remarks</i> |