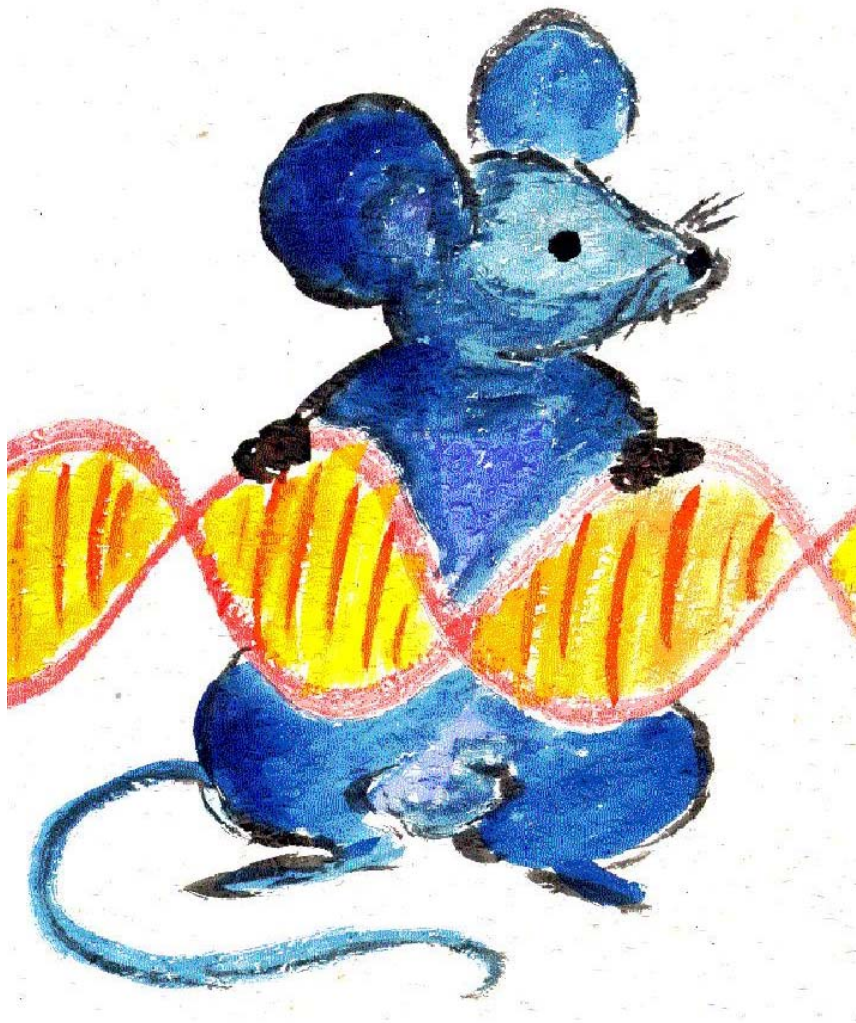


# 4<sup>th</sup> Workshop on Innovative Mouse Models



21-22 June 2007

Leiden University Medical Center  
Leiden – The Netherlands

## **Organisation:**

Jos Jonkers, *NKI Amsterdam*  
Paul Krimpenfort, *NKI Amsterdam*  
Werner Müller, *GBF Braunschweig*  
Els Robanus-Maandag, *LUMC Leiden*  
Hein te Riele, *NKI Amsterdam*  
Marian van Roon, *AMC Amsterdam*  
Sjef Verbeek, *LUMC Leiden*

Cover art: Drs. Bernd Dworniczak and Petra Pennekamp, Institute for Human Genetics, Münster, Germany.

# Program

## 4<sup>th</sup> Workshop on Innovative Mouse Models Thursday June 21, 2007

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12.30	Coffee, sandwich and registration	60'
13.30	Opening <i>Sjef Verbeek</i>	5'

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13.35-16.45	<b>Session 1: New technologies</b> <i>Chairs: Marian van Roon and Paul Krimpenfort</i>	
13.35	Keynote Lecture: "Harnessing transposons for cancer gene discovery" <i>Neal Copeland, IMCB, Singapore</i>	50'
14.25	Short presentation: "Oligonucleotide-directed gene modification: a novel addendum to the mouse toolbox" <i>Hein te Riele, Netherlands Cancer Institute, Amsterdam, Netherlands</i>	25'
14.50	Piggybac mediated mouse transgenesis <i>Pawel Pelczar, ILAS, Zurich, Switzerland</i>	15'
15.05	COnditional by INversion (COIN) alleles <i>Nicolas Gale, Regeneron Pharmaceuticals, Tarrytown, USA</i>	15'

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15.20	Coffee break	30'
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15.50	Generation of tetracyclin-inducible dual-promoter vectors for rapid and efficient production of lentiviral transgenic animals <i>Dieter Fink, BCCRC, Vancouver, Canada</i>	15'
16.05	Construction and use of gateway compatible rosa26 targeting vectors <i>Omar Nyabi, VIB, Ghent, Belgium</i>	15'
16.20	Towards one step cloning of multi-purpose targeting constructs <i>Martin Hafner, Helmholtz Institute, Braunschweig, Germany</i>	15'
16.35	Using bioluminescence to assess exon skipping: generation of the "spliceomouse" <i>A. Santangelo, Imperial College London, UK</i>	15'

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17.00-18.30	<b>Poster presentations, Drinks &amp; snacks</b>	90'
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19.00	<b>Dinner</b>	
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## 4<sup>th</sup> Workshop on Innovative Mouse Models

Friday June 22, 2007

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08.30-10.10	<b>Session 2: Modifying the mouse genome</b> <i>Chair: Sjef Verbeek</i>	
08.30	Keynote Lecture: The European Mouse Mutagenesis Consortium (EUComm). <i>Wolfgang Wurst, GSF, Munich, Germany</i>	50'
09.20	Short presentation: VelocImmune: humanization of immunoglobulin loci using VelociGene technology <i>Lynn Macdonald, Regeneron, Tarrytown, NY, USA</i>	25'
09.45	Short presentation: The generation of heavy chain only antibodies in mice <i>Frank Grosveld, Erasmus MC, Rotterdam, Netherlands</i>	25'
10.10	Coffee Break	
10.40-12.00	<b>Session 3: Tools for controlled gene expression</b> <i>Chair: Hein te Riele</i>	
	Targeting of Cre activity to subpopulations by use of two promoters <i>Christine Tertilt</i>	5'
	A BAC-based p16ink4a reporter for visualization and manipulation of senescent cells in vivo <i>Jay Mitchell</i>	5'
	Mast cell-specific Cre/loxP-mediated mutagenesis in vivo <i>Julia Scholten</i>	5'
	Inducible nephrin transgene expression in podocytes rescues nephrin deficient mice from perinatal death <i>Juuso Juhila</i>	5'
	Development of a new experimental model for investigation of immune mechanisms in the lung <i>T. Nikolic</i>	5'
	Generation of a tetracycline-inducible connective tissue growth factor (ctgf) promoter transgenic mouse for the study of diabetic nephropathy <i>Kristine Nyhan</i>	5'
	Generation of a novel B cell-specific inducible cre expressing mouse strain <i>Peter Boross</i>	5'
	Establishment of mouse immunization models: strictly controlled antigen expression upon flp mediated cassette exchange <i>Upneet Sandhu</i>	5'
	A dual use cassette for subsequent expression of hormone dependent and constitutively active Cre recombinase <i>Karina Nawrath</i>	5'
	Targeting Inducible Cre Activity to CD4 Positive T Helper Cells <i>Anna Sledzinska</i>	5'

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11.40	Discussion	20'
12.00-13.50	<b>Lunch + poster presentations</b>	
13.50-16.45	<b>Session 4: In vivo RNAi</b> <i>Chairs: Jos Jonkers and Marian van Roon</i>	
13.50	Keynote Lecture: "Constitutive and inducible RNAi in mice" <i>Jost Seibler, Artemis Cologne</i>	50'
14.40	Short presentation: "Conditional mutagenesis in the mouse brain through RNAi" <i>Ralf Kühn, GSF, Munich, Germany</i>	25'
15.05	Coffee Break	
15.35	Functional effects of RNA interference mediated glucocorticoid receptor knockdown in the mouse hippocampus <i>Carlos Fitzsimons, LACDR/LUMC, Netherlands</i>	15'
15.50	Induced knock-down of the desmosomal cadherin Desmoglein 2 (Dsg2) predisposes to colon cancer <i>Ernesto Bockamp, Johannes Gutenberg University, Germany</i>	15'
16.05	Conditional in vivo knockdown of members of the canonical wnt/ $\beta$ -catenin signalling cascade <i>Jos Veldscholte, JINI – Erasmus MC, Netherlands</i>	15'
16.20	Short presentation: "A reliable and cost-effective method for sperm cryopreservation" <i>Robert Taft, The Jackson Laboratory, Bar Harbor, USA</i>	25'
16.45	<b>Drinks &amp; snacks</b>	

# Financial and other support for this workshop was kindly provided by:



Koninklijke  
Nederlandse  
Akademie van  
Wetenschappen

KNAW



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