

Registration

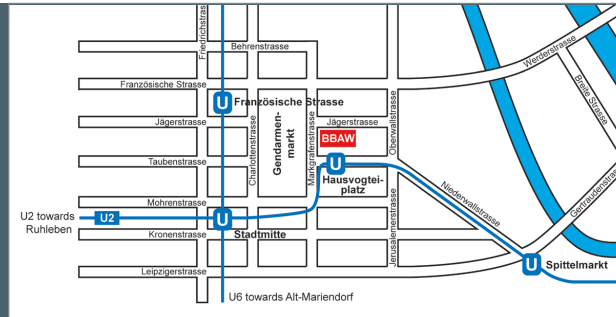
Deadline: 3rd September, 2007

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Conference venue



SYMPOSIUM NEW APPLICATIONS OF GENETIC ENGINEERING IN LIVESTOCK

Scientific Coordination

Dr. Margret Engelhard

Europäische Akademie GmbH, Bad Neuenahr-Ahrweiler

Dr. Mathias Boysen

Berlin-Brandenburgische Akademie der Wissenschaften, Berlin

Scholarship

A limited number of scholarships may be granted to students.
Scholarship includes travel and accommodation expenses.

Please send your CV together with reasons for your application
by 20th August to:

Dr. Margret Engelhard, margret.engelhard@ea-aw.de

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For more information see:

http://veranstaltungszentrum.bbaw.de/en/directions/map_bbaw.pdf

21st–22nd September, 2007

Berlin-Brandenburgische Akademie der
Wissenschaften, Leibniz-Saal

New applications of genetic engineering in livestock

Last year, the first “zoopharming” product reached market approval: it is a recombinant human protein for medical use that is produced in the milk of transgenic goats. This is only one example of upcoming applications of livestock genetic engineering. Other applications include enhancement of productivity (e.g. higher milk or meat yields), alterations of product quality (e.g. leaner meat), disease resistance (e.g. against udder inflammations), and alterations of environmental variables (e.g. reduced levels of phosphate in the faeces). Also, transgenic livestock may be used for xenotransplantation where genetic engineering is hoped to improve the animals' suitability as organ donors for humans. Currently, livestock genetic engineering is becoming increasingly feasible: the techniques to remove, modify, replace or add genes are being refined, and an increasing amount of genomic information about farm animals can be utilised.

However, while genetic engineering in livestock opens a huge range of possibilities, it also raises safety and justification concerns: does genetic engineering affect animal welfare? Is it safe and morally acceptable to apply genetic engineering to farm animals for the various purposes that are envisaged?

The symposium addresses livestock genetic engineering with an interdisciplinary panel of speakers. They will give talks on the state of the art of the technology and its applications, animal welfare considerations, and ethical aspects.

The organisers gratefully acknowledge funding obtained from the programme of the German Federal Ministry of Education and Research “Innovations- und Technikanalyse”, and from the Hermann und Elise geborene Heckmann Wentzel Stiftung.

Friday, 21st September 2007

13.30

Welcome

Professor Dr. Dr. h.c. Carl Friedrich Gethmann
Europäische Akademie, Bad Neuenahr-Ahrweiler,
und Berlin-Brandenburgische Akademie der
Wissenschaften (BBAW), Berlin
Professor Dr. Bernd Müller-Röber
AG Gentechnologiebericht, Berlin-Brandenburgische
Akademie der Wissenschaften, Berlin

14.00–16.00

SESSION I Genetic engineering of farm animals

Chair: Dr. Mathias Boysen
BBAW, Berlin

Transgenic farm animals: current status and perspectives for agriculture and biomedicine

Professor Dr. Heiner Niemann
Bundesforschungsanstalt für Landwirtschaft,
Neustadt

Novel developments in techniques to generate transgenic animals

Professor Dr. Louis-Marie Houdebine
INRA, France

16.00–16.30 Break

16.30–18.30

SESSION II Assessing the welfare of transgenic farm animals

Chair: Dr. Felix Thiele
Europäische Akademie, Bad Neuenahr-Ahrweiler

Animal welfare perspectives on the creation of transgenic farm animals

Professor Dr. Adroaldo J. Zanella
Norwegian School of Veterinary Science, Norway

Assessing the welfare of transgenic farm animals

Dr. Kees G. van Reenen
Institute for Animal Science and Health
ID-Lelystad, The Netherlands

Saturday, 22nd September 2007

8.30–9.30

SESSION III Ethical aspects of livestock genetic engineering

Chair: Kristin Hagen, Ph.D.
Europäische Akademie, Bad Neuenahr-Ahrweiler

Professor Dr. Matthias Kaiser
The National Committee for Research Ethics
in Science and Technology, Norway

9.30–10.30

SESSION IV Market development of biopharmaceuticals

Chair: Professor Dr. Bernd Müller-Röber
BBAW, Berlin

Professor Dr. Gary Walsh
University of Limerick, Ireland

10.30–11.00 Break

11.00–13.00

SESSION V Production of biopharmaceuticals in transgenic animals: zoopharming

Chair: Dr. Margret Engelhard
Europäische Akademie, Bad Neuenahr-Ahrweiler

Current developments in zoopharming

Professor Dr. Angelika Schnieke
Technische Universität München

First market approval of a zoopharming biopharmaceutical

Harry M. Meade, Ph.D.
GTC Biotherapeutics Framingham, MA, USA

13.00 Lunch