

EADGENE European Animal Disease Genomics Network of Excellence for Animal Health and Food Safety

Animal Disease Genomics: Opportunities and Applications
 10th - 11th June 2008, Edinburgh, UK

Welcome and Introduction

This publication represents the views of the Authors, not the EC. The EC is not liable for any use that may be made of the information.

EADGENE

About EADGENE

European Animal Disease Genomics Network of Excellence for Animal Health and Food Safety

- **Coordinating a genomics approach** to the unravelling of the host-pathogen interactions in domestic livestock
- **Providing the basic knowledge** necessary for the development of new or improved therapeutics and vaccines, improved diagnostics and the breeding of farm animals for disease resistance
- www.eadgene.info

Animal Disease Genomics: Opportunities and Applications
 10th - 11th June 2008, Edinburgh, UK

EADGENE

Key Facts

- Duration 5 years: 2004-2009
- 13 Partners from 10 countries
- Industrial 'club of interest'
- EC contribution: €11.52m
- Lead Institute: INRA
- **Co-ordinator:** Marie-Hélène PINARD-van der LAAN

Animal Disease Genomics: Opportunities and Applications
 10th - 11th June 2008, Edinburgh, UK

EADGENE

EADGENE's Achievements

Research:

- Working groups on **Salmonella, mastitis, E. coli, and ISAV/IPNV**
- Inventories of genetic resources and recorded disease trails
- Phenotyping of immune responses in genetic models for disease resistance
- Comparative transcriptomic studies in hosts and pathogens
- Identification and characterization of virulence factors
- Integration and meta-analysis of gene expression data
- Identification of candidate genes and (large scale) SNP discoveries
- Genotyping using whole genome and targeted approaches
- Maps and annotation of animal and microbial genomes improved

Integration:

- Chicken, pig, and bovine DNA microarrays
- Bioinformatics tools
- Workshops and courses
- STS funding of over 30 scientists

Technology Transfer:

- Club of Interest
- Industry involvement in
 - ATO project
 - Data collection project
 - Disease resistance projects

Communication:

- Ethical guidance
- Newsletters
- www.eadgene.info

Animal Disease Genomics: Opportunities and Applications
 10th - 11th June 2008, Edinburgh, UK

EADGENE

Welcome to the 4th EADGENE days!

"Animal Disease Genomics: Opportunities & Applications"

- **Progress made in EADGENE in 4 years !**
 - New opportunities for novel collaborative research
 - Concrete applications
- **Programme open to other European projects**
 - Last year, SABRE
 - This year, Med-Vet-Net.
- **Programme open to international collaborations**
 - Animal Trait Ontology Initiative workshop

Animal Disease Genomics: Opportunities and Applications
 10th - 11th June 2008, Edinburgh, UK

EADGENE

"House Keeping" Rules

- **Please switch off all mobiles**
- **Fire Exits**
 - Fire alarm test at 11.00 today – please ignore!
- **Please be on-time**
 - If you are late please enter lecture theatre between presentations
- **Poster sessions**
 - During coffee breaks, lunches, main session : Tuesday evening
- **Conference dinner – Tuesday 8pm**
 - By ticket only
 - Hand in unwanted tickets / request tickets at the registration desk
 - Map on back of ticket
 - "Heights" restaurant, 5th floor, Apex International Hotel
- **Interact with people**
- **Enjoy your day!**

Animal Disease Genomics: Opportunities and Applications
 10th - 11th June 2008, Edinburgh, UK