

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

A technological triangle

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Participating Laboratories

- EADGENE WP 1.1 "Biological resources and facilities"
- A research triangle – focusing on microarray technology

Objectives

Related to DNA Microarray Technology:

- Exchange of procedures, methods ...
 by short-term exchange of personnel between labs
- Compare results between labs
 by conducting a QC experiment

Exchange

Stephen Carmichael

Lene N. Conley

Jakob Hedegaard

Yu Gao

Exchange

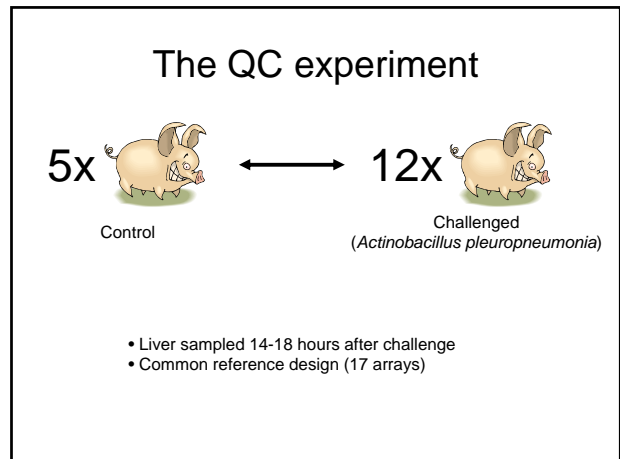
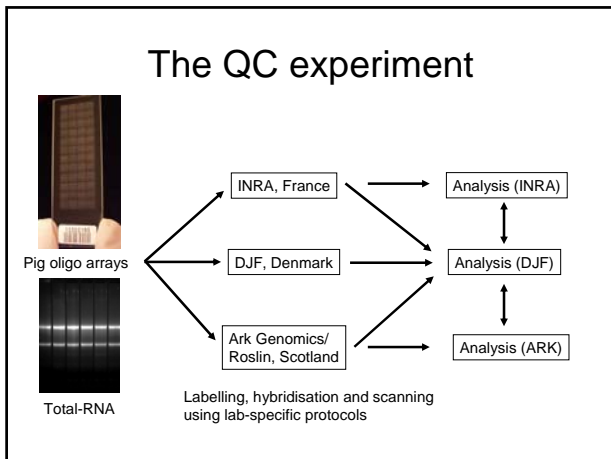
March 31st – April 11th

April 14th – 25th

September (?)

Exchange

- Discussions about
 - methods for labelling of samples
 - quality control of a microarray experiment
 - methods for hybridisation
 - optimal scanning
 - equipment
 - data storage and management
 - data analysis
- Follow the work in another lab....
- Being inspired!



The QC experiment

Pig oligo microarray

27.648 features:

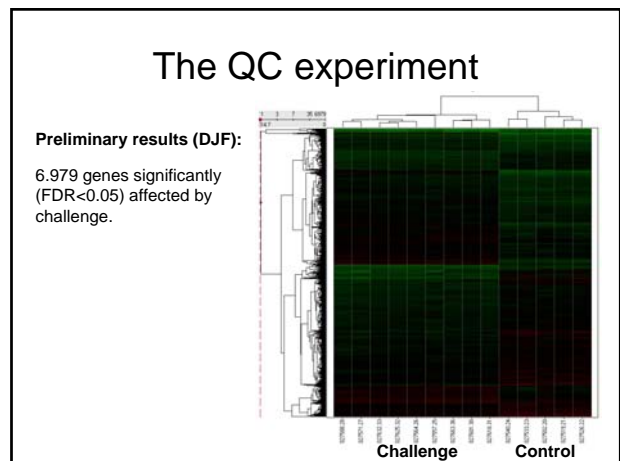
- 25.210 oligos (19K transcripts)
- 2.438 control features

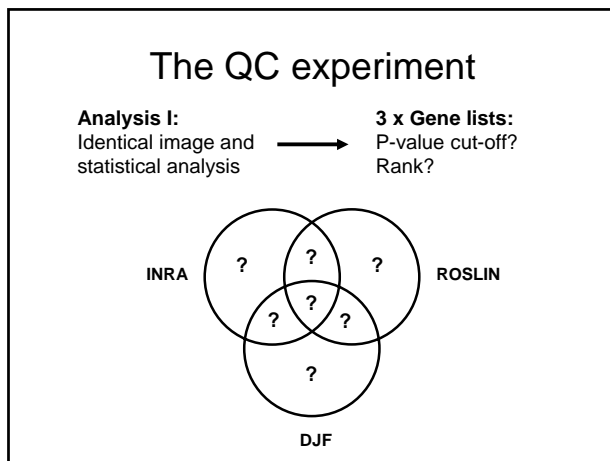
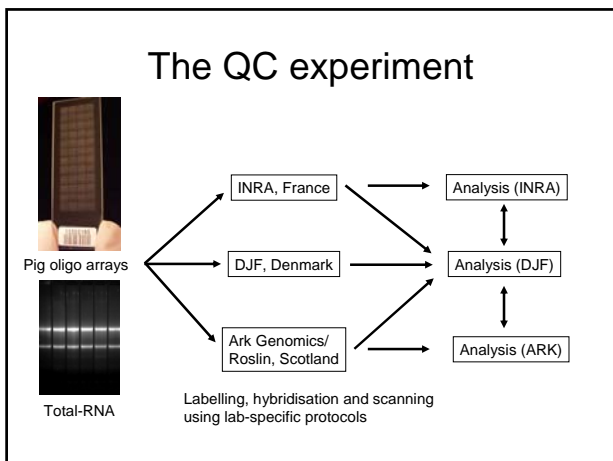
Printed by DJF and INRA

(Poster / future projects?)

- ### The QC experiment
- INRA**
- RNA amplification
 - manual hybridisation
- ROSLIN**
- indirectly labelling
 - automatic hybridisation (Genomic Solution, GeneTAC)
- DJF**
- directly labelling
 - automatic hybridisation (Ventana, Discovery XT)

- ### The QC experiment
- Status:**
- ✓ DJF
 - ✓ INRA (samples ready for hybridisation)
 - ✓ ROSLIN (samples ready for hybridisation)





- ### The QC experiment
- Analysis II - n:**
- Scanning
 - Image analysis
 - Statistical analysis
 - ...

Acknowledgements

| | | |
|---|---|--|
| DJF Lene Nagstrup Conley Henrik Hornshøj Helle Jensen Christian Bendixen | Roslin Stephen Carmichael Richard Talbot | INRA Yu Gao Diane Esquerré Jérôme Lecardonnell Karine Hugot |
|---|---|--|

Financial support
 EADGENE Short Term Stay Grants

National Veterinary Institute, Technical University of Denmark
 Kerstin Skovgaard
 Shila Mortensen
 Peter M. H. Heegaard