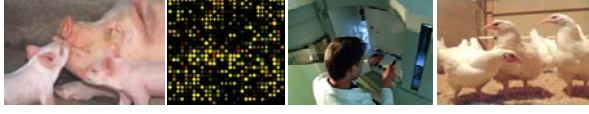



Welcome to the Post-analyses Workshop  
 Florence Jaffrezic  
 INRA, France

**EADGENE** **SABRE**  
 CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING


**EADGENE and SABRE Post-Analyses Workshop**  
 12-14th November 2008, Animal Sciences Group, Wageningen UR, Lelystad



**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** **SABRE**  
 CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING

**The organisers**

- **Oligo Annotation:** Christophe Klopp (INRA)
- **Pathways, including tissue analysis and biological meaning:** Jakob Hedegaard (Uni. Aarhus)
- **QTL and Microarrays:** DJ de Koning (Roslin)
- **Phenotype prediction:** Magali San-Cristobal (INRA)
- **Gene Networks :** Florence Jaffrezic (INRA)
- **Caroline Channing (Roslin)**
- **Special thanks to our local organisers/hosts:** Rita Hoving-Bolink, Mari Smits (ASG)






EADGENE and SABRE Post-Analyses Workshop  
 12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

**EADGENE** **SABRE**  
 CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING

**The data sets**

- **Data set 1: Chicken infection data provided by Annemarie Rebel's group at ASG Lelystad**
- **Data set 2: Pig adrenal sensitivity data provided by Pierre Mormede's group at INRA**

EADGENE and SABRE Post-Analyses Workshop  
 12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

**EADGENE** **SABRE**  
 CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING

**The programme**

**Wednesday 12th Nov 2008**


- Oligo annotation results

**Thursday 13th Nov 2008**

- Software training session: Cytoscape
- Descriptions of the data sets
- Summary of oligo annotation results
- Pathways results

**Friday 14th Nov 2008**

- Pathways results continued
- Gene Networks results
- QTL and microarrays results
- Phenotypes results
- Open communications




EADGENE and SABRE Post-Analyses Workshop  
 12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

**EADGENE** **SABRE**  
 CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING

**Publication plans**

- **Four papers published after EADGENE Data Analysis Workshop (Tune, Nov 2006)**
- **Proposal to publish 2+ papers on post-analyses results**
- **Similar authorship arrangement to previous papers**
- **Preliminary agreement with BMC Proceedings**



EADGENE and SABRE Post-Analyses Workshop  
 12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

**EADGENE** **SABRE**  
 CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING

**Workshop dinner and transport**

- **Workshop Dinner 19:00 Thursday**
  - "Food for Friends" restaurant
  - Located around the corner from Apollo hotel –meet 19:00 in hotel reception
- **Bus transport:**
  - Thursday 17:00 ASG to Apollo hotel
  - Friday 08:00 hotel to ASG
  - Friday 16:00 ASG to Lelystad train station – speak to Caroline if you need to leave earlier




EADGENE and SABRE Post-Analyses Workshop  
 12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

Welcome to the Post-analyses Workshop  
Florence Jaffrezic  
INRA, France

**EADGENE** CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING **SABRE**

### Practical Information

- **No smoking in the building**
- **Fire exits are sign-posted**
- **Feedback forms**
- **Please return badges after your last session**



**EADGENE and SABRE Post-Analyses Workshop**  
12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

**EADGENE** CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING **SABRE**

### Thank you and enjoy the workshop!

**EADGENE and SABRE Post-Analyses Workshop**  
12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

**EADGENE** CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING **SABRE**

### Session 1: Oligo annotation results

14:00 Welcome and introduction – Christophe Klopp (INRA)  
14:20 OligoRAP: A dual dual dual strategy for optimal oligo annotation – Pieter B.T. Neerincx, Haisheng Nie, Martien A.M. Groenen and Jack A.M. Leunissen (Wageningen University)  
14:50 Annotation results - Dennis Prickett (IAH)  
15:20 *Coffee break*  
15:40 Annotation results - Christophe Klopp, Francois Moreews, Pierrot Casel (INRA)  
16:10 General discussion of pipelines, databases, formats, etc. (chaired by Christophe Klopp)  
17:00 **Close. Buses from ASG to Apollo hotel**  
19:00 **Dinner: Sorrento restaurant** De Stelling 11-21 (meet in hotel reception at 18:45 to walk to restaurant)

**EADGENE and SABRE Post-Analyses Workshop**  
12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

**EADGENE** CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING **SABRE**

### Session 3: oligo annotation, pathways

13:30 Welcome – Florence Jaffrezic (INRA)  
13:45 Description of the chicken data experiment: Immune reactions after a homologous or heterologous challenge of broilers primed with *Eimeria maxima* - Willem Swinkels, Jan Cornelissen, Leo Kruijt, Astrid de Greeff, Annemarie Rebel (ASG)  
14:05 Description of the pig data experiment: Gene array and real time PCR analysis of the adrenal sensitivity to adrenocorticotrophic hormone in pig - Dominique Hazard, Laurence Liaubet, Magali SanCristobal, Pierre Mormede (INRA)  
14:25 Summary of oligo annotation results – Christophe Klopp (INRA)  
14:55 Introduction to pathways – Jakob Hedegaard (University of Aarhus)  
15:10 *Coffee break*

**EADGENE and SABRE Post-Analyses Workshop**  
12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

**EADGENE** CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING **SABRE**

### Session 3: Pathways

15:30 Biological pathway analyses by Arrayunlock and IPA - María Ramirez Boo, Cristina Arce Jimenez, Melania Collado Romero, Angeles Jiménez Marin and Juan José Garrido Pavón (University of Cordoba)  
16:00 GenMAPP - A Software Tool for Analyzing Microarray Data in the context of Biological Pathways – Dennis Prickett (IAH)  
16:30 The chicken data set analysed by DJF – Jakob Hedegaard, Henrik Hornshøj, Bart Buitenhuis, Axel Skarman, Li Jiang, Lene Nagstrup Conley, Peter Sørensen (University of Aarhus)  
17:00 **Close. Buses from ASG to Apollo hotel**  
19:00 **Workshop dinner at Food for Friends restaurant** Agorahof 15 (next to the Apollo hotel)

**EADGENE and SABRE Post-Analyses Workshop**  
12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad



**EADGENE** CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING **SABRE**

### Session 4: Pathways cont, Gene networks

08:30 Array data mining using Bioconductor - Haisheng Nie, Pieter Neerincx, Francesco Ferrari, Silvio Bicciato, Martien Groenen (Wageningen University)  
09:00 GOEAST and Globaltest: Two different methods for Gene Ontology analysis – Ina Hulsegge, Arun Kommadath (ASG)  
09:30 Pathway results from the chicken data set using several softwares - Magali San Cristobal, Christèle Robert-Granié, Gwenola Tosser-Klopp (INRA)  
10:00 *Coffee break*  
10:20 Free Communications:  
(i) Chicken intestinal development by studying gene expression (microarray), followed by pathway and GO analyses – Dirkjan Schokker (Wageningen University)  
(ii) EADGENE mastitis data meta analysis - Elisabetta Giuffra, Anna Anselmo (PTP)  
11:00 Gene network reconstruction from microarray data – Florence Jaffrezic (INRA)  
11:30 General discussion (chaired by Jakob Hedegaard)  
12:00 **Lunch**

**EADGENE and SABRE Post-Analyses Workshop**  
12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad

Welcome to the Post-analyses Workshop  
Florence Jaffrezic  
INRA, France



CUTTING EDGE GENOMICS FOR SUSTAINABLE ANIMAL BREEDING

### Session 5: QTL and microarrays, phenotypes

13:00 Introduction to QTL and microarray results - Dirk-Jan de Koning (University of Edinburgh)

13:10 In silico mapping of a few genes differentially expressed in pig adrenal glands as a function of sensitivity to ACTH - Vincent Jouffe, Pierre Mormede (INRA)

13:40 The missing link - QTLs and microarrays - Li Jiang, Lene Nagstrup Conley, Henrik Hornshøj, Bart Buitenhuis, Axel Skarman, Peter Sørensen, Jakob Hedegaard (University of Aarhus)


14:10 X marks the spot - but how deep is the treasure? - Suzanne Rowe (University of Edinburgh)

14:40 *Coffee break*

15:00 Predicting qualitative phenotypes from microarray data: the Eadgene pig data set - Christele Robert-Granié, Kim-Anh Lê Cao, Magali San Cristobal (INRA)

15:30 General discussion (chaired by DJ de Koning)

16:00 **Close. Buses to Lelystad train station**



EADGENE and SABRE Post-Analyses Workshop  
12-14th Nov 2008, Animal Sciences Group, Wageningen UR, Lelystad