

2ND ANNUAL GEMINI MEETING

ALGHERO, SARDINIA, ITALY

1st – 3rd October 2009

Programme



Thursday 1st October 2009

18:00 Registration Open and Reception

Friday 2nd October 2009

08:30-09:00 Registration open

09:00-09:10 Conference Chairman Opening: **Sergio Ledda, Alghero Italy**

09:10-09:15 Gemini Chairman Opening: **Alireza Fazeli, University of Sheffield, UK**

09:15-10:05 Plenary Lecture

Yuri Lazebnik, Cold Spring Harbor Laboratory, USA

Can a biologist fix a radio?

Morning session WGI: Experimental Models

10:05-10:10 Introduction

Ann Van Soom, Ghent University, Belgium

Andras Dinnyes, Gödöllő, Hungary

10:10-10:55 **Veronique Duranthon, INRA, France**

Rabbit as a pre and post-implantation developmental model

Short communication (selected from abstracts)

10:55-11:10 **Tom Stout, Utrecht University, Netherlands**

The role of oxytocin and prostaglandin receptors in maternal recognition of pregnancy in the mare

11:10-11:35 Coffee Break (plus poster viewing)

11:35-11:50 **Wedad Aboussahoud, University of Sheffield, UK**

Activation of Toll-Like Receptor five decreases human trophoblast cells attachment to endometrial cells; the impact of infection on maternal communication with embryo

11:50-12:35 **Heiner Niemann, Institute of Farm Animal Genetics, Mariensee, Germany**

*Unravelling the transcriptome of bovine preimplantation embryos derived *in vivo**

12:35-13:05 **Discussion Workshop WGI:**
About Radios, Rabbits and RNA
Moderators: Ann Van Soom, Ghent University, Belgium
Andras Dinnyes, Gödöllő, Hungary

13:05-14:30 Lunch and Poster Session

Afternoon Session WGII: Technologies

14:30-14:35 Introduction
Eckhard Wolf, LMU Munich, Germany
Jean-Pierre Ozil, INRA, France

14:35-15:20 **Philippe Andrey, INRA, France**
How-to: A practical approach to the mathematical modeling of biological systems

Short communication (selected from abstracts)

15:20-15:35 **Stefan Bauersachs, LMU Munich, Germany**
Analysis of the endometrium transcriptome using RNA seq

15:35-15:50 **Jackson Kirkman-Brown, University of Birmingham, UK**
Modifications to sperm flagellar movement due to interaction with physiological female tract rheology

15:50-16:15: Tea Break (plus poster viewing)

16:15-17:00 **Thomas Werner, Genomatix Software, Germany**
Next generation sequencing: Opportunities and challenges on the example of ChIP-seq application

17:00-17:30 Discussion workshop WGII:
Technologies
Moderators: Eckhard Wolf, LMU Munich, Germany
Jean-Pierre Ozil, INRA, France

17:30-17:45 Tea Break (plus poster viewing)

17:45-18:30 **Discussion Workshop:**
The year passed in COST; What was good? What was bad? And what we need to do for the next year?
Moderator: Fulvio Gandolfi, University of Milan, Italy

19:30 Dinner

Saturday 3rd October 2009

08:30 Registration open

08:30-09:15 “Discussion on funding”
*Have we had any success to raise funds for research as a result of GEMINI?
Last year experiences with EU and ESF?*

Promoting GEMINI as a research topic in European frame works.

Moderator: Alireza Fazeli, University of Sheffield, UK

09:15-10:05 **Mike White, University of Liverpool, UK**
Spatial and temporal information coding by the NF- κ B system

Morning session: VIII: The Search for Mechanisms

10:05-10:10 Introduction
Tom Fleming, University of Southampton, UK
Pascale Chavatte-Palmer, INRA, France

10:10–10:55 **Kevin Sinclair, University of Nottingham, UK**
Developmental origins of health and disease: Maternal diet and epigenetic programming in the oocyte and pre-implantation embryo

10:55–11:20 Coffee break (plus poster viewing)

Short communication (selected from abstracts)

11:20–11:35 **Adam Watkins, University of Southampton, UK**
Elevated offspring growth induced by maternal protein undernutrition exclusive during preimplantation development is associated with altered signalling through the mammalian target of rapamycin (mTOR) pathway in mice

11:35-11:50 **Anne Navarrete Santos, Martin Luther University, Germany**
What can we learn about embryo-maternal interactions from diabetic animal models?

11:50-12:05 **Pascale Chavatte Palmer (on behalf of Oliver Picone), INRA, France**
Influence of a Hyperlipidic Hypercholesterolemic diet on Folliculogenesis and Adipophlin expression in the preimplantation embryo in rabbits

12:05-12:20 **Veerle Van Hoeck, University of Antwerp, Belgium**
The consequence of hyperlipidemic serum during IVP culture on embryo quality

12:20-12:35 **Judith Eckert, University of Southampton, UK**
Acute maternal protein overnutrition alters embryonic cell-lineage allocation, signalling activity and biosynthesis levels

12:35–14:15 Lunch (plus poster viewing)

14:15 – 14:45 **Discussion forum WGIII:**

The Search for Mechanisms

Moderators: Tom Fleming, University of Southampton, UK
Pascale Chavatte-Palmer, INRA, France

14:45-14:55: Meeting Closure and Concluding Remarks

Alireza Fazeli, GEMINI Chairman

14:55–15:15 *Tea break*

15:15-18:00 “MC Meeting”

19:30 *Gala Dinner*

Sunday 4th October 2009

One day Excursion