



AETE

Association Européenne des Technologies de l' Embryon

Association of Embryo Technology in Europe

34th SCIENTIFIC MEETING

“La Cité Nantes Events Centre”

Nantes, France

P R O G R A M M E

7th and 8th September, 2018

THURSDAY, September 6th 2018

- 18.30-20.00: Registration
20.00-22.00: Welcome Reception at La Cité Nantes Events Centre

FRIDAY, September 7th 2018

- 08.00-17.00: Registration
08.45-09.00: Opening meeting: AETE President Dimitrios Rizos and Chair of the LOC Daniel Le Bourhis

SESSION 1: Chairpersons: MARJA MIKKOLA & ROGER STURMEY

- 09.00-09.45: First invited lecture:
Marcelo M. Seneda, Department of Veterinary Clinics, State University of Londrina, Brazil:
Ovarian antral follicle populations and embryo production in cattle
- 09.45-10.30: Second invited lecture:
Helen Picton, Faculty of Medicine and Health, University of Leeds, UK:
Preservation of female fertility in humans and animal species
- 10.30-11.30: POSTER SESSION 1 and coffee break

Student Competition SESSION: Chairperson: JO LEROY

- 11.30-12.45: Short oral communications
T Hailay et al.; *Detection of cell-free DNA in embryo culture medium: its potential application as a noninvasive method for sex determination in cattle*
C Banliat et al.; *Physiological concentrations of steroid hormones during in vitro culture changed lipid composition and improved cryosurvival of bovine embryos*
B Rodríguez-Alonso et al.; *Local embryo effect on the transcriptomic response of the oviductal epithelial cells results from in vivo and in vitro approaches*
PK Fontes et al.; *Detection of adult stem cell marker leucine-rich repeat-containing G-protein-coupled receptor 5 (LGR5) transcripts in bovine oviduct epithelial cells*
JG Hamze et al.; *Design of pJuno-beads to study the molecular mechanisms of sperm-oocyte interaction*
- 12.45-14.00: Lunch

SESSION 2: Chairpersons: HILDE AARDEMA & DANIEL LE BOURHIS

- 14.00-14.45: Third invited lecture:
Pablo Bermejo-Alvarez, Department of Animal Reproduction, INIA, Madrid, Spain:
Directions and applications of CRISPR technology in livestock research
- 14.45-15.45: Short oral communications
M Ramal Sanchez et al.; *Progesterone induces sperm release from bovine oviductal epithelial cells by modification of the sperm protein and lipid compositions*
PJ McKeegan et al.; *The use of a novel microfluidic culture device and predictive metabolic profiling as a means to improve murine embryo developmental competence in vitro*
GM Bragança et al.; *The use of different progestin devices in ovarian stimulation protocol affects gene expression in sheep cumulus-oocyte complexes (COC)*
B Planells et al.; *Role of RNA isoform expression in sex determination in mice*
- 15:45-16.15: POSTER SESSION 2 and coffee break
- 16.15-17.45: Workshop I: Sanitary and regulations on embryo transfer
managed by Francis Fieni, Ecole Nationale Veterinaire, Nantes, France
Pascale Chavatte-Palmer, UMR BDR, INRA, ENVA, France: *IETS and HASAC: the genesis of the World Organization for Animal Health (OIE) recommendations for safe trade of embryos*
Stephan Zientara, ANSES, France. *Viral emergences and consequences for the risk of disease transmission via in vivo derived embryos*
Hélène Quinton, Evolution, France: *The constraints for a registered Embryos Transfer Team concerning bovine embryos importation and exportation*
Olivier Gerard, ALLICE, France: *Consequences of sanitary issues (diseases outbreaks) on bovine semen exportations from Europe to third countries: history and current situation*
- 19:00-02:00: Gala Dinner: The Elephant's show and Gala Dinner at Le Nantilus (floating restaurant on the Loire river)

08:00-17:00: Registration

SESSION 3: Chairpersons: JANE MORRELL & HELENE QUINTON

09.00-09.45: Fourth invited lecture:

Fabienne Nuttinck, UMR BDR, INRA, ENVA, Université Paris Saclay, Jouy en Josas, France:

Oocyte related factors impacting on embryo quality: relevance for “in vitro” embryo production

09.45-10.45: Short oral communications

KK Roussi and RG Sturmey; *Investigating the impact of hyperglycaemia on bovine oviduct epithelial cell physiology and secretions in vitro*

H Aardema et al.; *Oviductal cells express Stearoyl-CoA desaturase that can protect the embryo against saturated fatty acids*

KLJ Desmet et al.; *Elevated non-esterified fatty acid concentrations during in vitro maturation affect the transcriptome profile of day 14 bovine embryos 7 days after transfer*

I Hyder et al.; *Analyzing the effects of bovine Interferon tau and female sex steroids on neutrophil pro and anti inflammatory triggers to understand implantation*

10.45-11.45: POSTER SESSION 3 and coffee break

11.45-12.00: Sponsor presentation

12.00-12.30: General Assembly

12.30-13.30: Lunch/Student Lunch

SESSION 4: Chairpersons: TERESA MOGAS & JAN DETTERER

13.30-14.15: Fifth invited lecture

Patrice Humblot, Department of Clinical Sciences, Swedish University of Agricultural Sciences, Uppsala, Sweden:

From clinics to (cow)mics; a reproductive journey

14.15-14.30: Pioneer award 2018 - Patrice Humblot AETE Medallist Presentation introduced by Hilary Dobson (UK)

14.30-15.30: Short oral communications

E Mullaart et al.; Good pregnancy rate of bovine biopsied and vitrified IVP embryos

JS Lopes et al.; Reproductive fluids added to embryo culture vs. standard culture in cow: first results on pregnancy rates

AP Reis et al.; Identification and mathematical prediction of different morphokinetic profiles of *in vitro* developed bovine embryos.

AV Murillo et al.; Peri-natal basic blood biochemistry and health of calves born from frozen and vitrified IVP cattle embryos

15:30-16.00: POSTER SESSION 4 and coffee break

16.00-17.30: Workshop II: Preservation of *in vitro* produced embryos

managed by Teresa Mogas, School of Veterinary, Autonomous University of Barcelona, Spain

Bruno V. Sanches, Cogent IVF, Oregon, USA. *Cryopreservation of IVP bovine embryos*

Cristina Cuello, University of Murcia, Spain. *The challenge of vitrifying in vitro-produced porcine embryos*

Christine Wrenzycki, Justus-Liebig-University Giessen, Germany: *Effects of (cryo)preservation on the quality of in vitro produced embryos*

17.30-17.45: Closing session: Student Competition results and invitation to the AETE Conference 2019

20.00-24:00: Farewell party: Regional specialty “les crêpes” and traditional music band at Les Salons des Floralies

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