



# AETE

Association Européenne des Technologies de l' Embryon

Association of Embryo Technology in Europe

## 35<sup>th</sup> SCIENTIFIC MEETING

HOTEL NELVA

Murcia, Spain

P R O G R A M

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13<sup>th</sup> and 14<sup>th</sup> September 2019  
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## THURSDAY, September 12<sup>th</sup> 2019

- 13:30-19:30: Preconference workshop: *OPU, vitrification and use of reproductive fluids in bovine species*  
Veterinary Farm, University of Murcia.
- 18.30-20.00: Registration
- 20.00-22.00: Welcome Reception

## FRIDAY, September 13<sup>th</sup> 2019

- 08.00-18.00: Registration
- 08.30-08.45: Opening meeting: AETE President Jo Leroy and Chair of the LOC Raquel Romar  
**SESSION 1: Chairpersons: HILDE AARDEMA & DANIEL LE BOURHIS**
- 08.45-09.30: *First invited lecture:*  
**Felipe Perecin**, Veterinary Medicine Department, University of Sao Paulo, Brazil:  
*Cellular interactions during oocyte development and maturation*
- 09.30-10.15: *Second invited lecture: Supported by VETOQUINOL*  
**Peter J Hansen**, Department of Animal Sciences, University of Florida, United States of America:  
*Reproductive physiology of the heat-stressed cow: implications for fertility and assisted reproduction*
- 10.15-11.15: POSTER SESSION 1 (even numbers) and coffee break  
**STUDENT COMPETITION SESSION: Chairpersons: LOTTE STROEBECH & JO LEROY**
- 11.15-12.30: Short oral communications  
**M. Moya-Jódar et al.**; *Generation of vascular deficient porcine embryos*  
**I. Hyder et al.**; *Vital tagging of potential naïve pluripotency in a mouse model*  
**C. Banliat et al.**; *A proteomic approach to decipher embryo-maternal interactions in the oviduct*  
**L. Martínez-Fresneda et al.**; *Proteomic analysis of ejaculated and epididymal sperm associated with freezability in Iberian ibex (Capra pyrenaica)*  
**S. García-Martínez et al.**; *Culture under the physiological temperature registered along the reproductive tract of female pigs improves the blastocysts yield in vitro*
- 12.30-12.45: Sponsor presentation
- 12.45-14.00: Lunch  
**SESSION 2: Chairpersons: MARJA MIKKOLA & ROGER STURMEY**
- 14.00-14.45: *Third invited lecture:*  
**Sylvie Chastant-Maillard**, National Veterinary School of Toulouse, France:  
*Inflammation: friend or foe of cow reproduction?*
- 14.45-15.45: Short oral communications: Cloning, transgenesis and cryobiology  
**C. Cuello et al.**; *Transcriptome of porcine blastocysts stored in liquid state for up to 48 h*  
**L. Richter et al.**; *Intracytoplasmic sperm injection using sex-sorted sperm in the bovine*  
**S. Navarro-Serna et al.**; *First production of Calpain3 KO pig embryo by CRISPR/Cas9 technology for human disease modelling: efficiency comparison between electroporation and intracytoplasmic microinjection*  
**M. Serrano Albal et al.**; *SNP based Preimplantation Genetic Testing for Aneuploidy (PGT-A) to improve pregnancy outcomes in cattle IVP: a blind retrospective study*
- 14.45-15.45: Sponsors and practitioners forum (Parallel session): **Chairpersons: DANIEL LE BOURHIS, JAN DETTERER & HELENE QUINTON**  
*Networking for practitioners and sponsors: What is new in ART bussiness? (Room Mediodía)*
- 15:45-16.45: POSTER SESSION 2 (even numbers) and coffee break
- 16.45-18.30: Workshop I: *The impact of heat stress on dairy cows fertility-The management point of view*  
chaired by Zvi Roth, The Hebrew University of Jerusalem, Israel  
*Supported by VETOQUINOL & ONE CAUSE BIOMEDICAL*  
**Zvi Roth**, The Hebrew University of Jerusalem, Israel: *Efficient cooling management and remedial hormonal treatment to alleviate the effect of heat stress on ovarian function in dairy cows*  
**Peter J Hansen**, University of Florida, United States of America: *Embryo transfer- a promising tool for improving fertility during heat stress*  
**Fabiola Freitas de Paula-Lopes**, Federal University of Sao Paulo, Brazil: *Using thermoprotective factors to alleviate the effects of heat stress on the ovarian pool of oocytes: lessons from the lab bench to the field*  
**Pol Llonch**, Autonomous University of Barcelona, Spain: *Adaptation to heat stress in sows: an unfinished business*
- 20.00-02:00: Gala Dinner. Royal Casino

08:00-17.00: Registration

**SESSION 3: Chairpersons: JANE MORRELL & HELENE QUINTON**

09.00-09.45: *Fourth invited lecture*

**Olli Peltoniemi**, Faculty of Veterinary Medicine, University of Helsinki, Finland:

*Developments of reproductive management and biotechnology in the pig*

09.45-10.45: Short oral communications: OPU/IVF and ET - Physiology and Reproduction in male semen technology  
**X. Lin et al.**; *Bta-miR-10b secreted by bovine embryos negatively impacts preimplantation embryo development*

**P. Salvetti et al.**; *Prediction of pregnancy after transfer of bovine in vitro produced embryos based on recipients' blood plasma metabolomics*

**N. Ghanem et al.**; *Transcript abundance and antioxidant biomarker of buck semen cryopreserved with melatonin supplementation*

**F. Martínez Pastor et al.**; *Season affects refrigerated-stored semen doses from a commercial stud AI centre: A flow cytometry study of sperm physiology and chromatin status*

10.45-11.45: POSTER SESSION 3 (odd numbers) and coffee break

11.45-12.15: General Assembly

12.15-13.30: Lunch/Student Lunch

**SESSION 4: Chairpersons: TERESA MOGAS & JO LEROY**

13.30-14.15: *Fifth invited lecture*

**Poul Hyttel**, Department of Veterinary and Animal Sciences, University of Copenhagen, Denmark:

*Oocytes, embryos and stem cells in a one health perspective*

14.15-14.30: Pioneer award 2019 - Poul Hyttel AETE Medalist Presentation  
introduced by Trudee Fair (Ireland)

14.30-15.30: Short oral communications: Embryology, Developmental Biology and Physiology of Reproduction  
**S. Yaacobi-Artzi et al.**; *Using a time-lapse system to study the morphokinetics of blastocysts derived from heat-shocked oocytes*

**S. Baldovská et al.**; *Anti-cancer potential of pomegranate peel on human ovarian carcinoma cells OVCAR-3*

**J. De Bie et al.**; *Trolox during in vitro maturation of bovine oocytes can protect embryos from palmitic acid induced lipotoxicity during development: effects on mRNA transcript abundance*

**V.A. van der Weijden et al.**; *Dynamic transcriptome changes during embryonic diapause and reactivation in the embryo and endometrial epithelium of the European roe deer*

15:30-16.30: POSTER SESSION 4 (odd numbers) and coffee break

16.30-18.00: Workshop II: *Social acceptance of reproductive technologies in livestock* chaired by Roger Sturmeij, Hull York Medical School, United Kingdom.

**Darren Griffin**, University of Kent, UK and **Roger Sturmeij**, Hull York Medical School, UK: *Reproductive technology - why is current and future practice important for agriculture?*

**Ann Van Soom**, Ghent University, Belgium and **Roger Sturmeij**, Hull York Medical School, UK: *Reproductive technologies; what is current and what is tomorrow?*

18.00-18.30: Closing session: Results for Student competition, best oral presentation and best poster presentation.  
invitation to the AETE Conference in 2020

20.00-24:00: Farewell party. Campoamor beach