



AETETE

Association Européenne des Technologies de l' Embryon

Association of Embryo Technology in Europe

38th SCIENTIFIC MEETING

KINEPOLIS JAARBEURS UTRECHT

Utrecht, The Netherlands

PROGRAMME

15th and 16th September, 2022

WEDNESDAY, September 14th 2022

10.00-15.00: CRV AETE Pre-conference workshop

18.00-20.00: Registration

18.00-20.00: Welcome Reception

THURSDAY, September 15th 2022

08.00-18.00: Registration

08.15-08.30: Opening meeting: AETE President Jo Leroy and Chair of the LOC Hilde Aardema.

SESSION 1: Chairpersons: JO LEROY & JANE MORRELL

08.30-09.15: *First invited lecture:*

Marcella Milazzotto, Center of Natural and Human Science of Federal University of ABC, São Paulo, Brazil.

Erasing gametes to write blastocysts: metabolism as the new player in epigenetic reprogramming.

09.15-10.00: *Second invited lecture:*

Adam Watkins, Division of Child Health, Obstetrics and Gynaecology, University of Nottingham, UK.

Defining the male contribution to embryo quality and offspring health in assisted reproduction in farm animals.

10.00-11.00: SPONSOR AND POSTER EXHIBITION, SPONSOR BOOTH TOUR (1) & coffee break

11.00-12.15: **Student Competition SESSION: Chairpersons: MARJA MIKKOLA & HILDE AARDEMA**

R. Jochems et al. *Preimplantation genetic testing for aneuploidy (PGT-A) reveals a high incidence of chromosomal errors in in vivo and in vitro pig embryos.*

J. Yang et al. *First evidence of nanoplastic uptake by the maturing oocyte.*

A. Pérez-Gómez et al. *HH5 double-carrier bovine embryos show impaired development through elongation.*

N. Grechi Ribeiro et al. *Microplastics have a negative effect on sperm and oocytes in vitro.*

B. Galiano-Cogolludo et al. *Bovine embryos lacking progesterone receptor (PGR) develop normally through early elongation*

12.15-12.30: Sponsor presentations

12.30-14.00: Lunch

SESSION 2: Chairpersons: ROGER STURMEY & TERESA MOGAS

14.00-14.45: *Third invited lecture:*

Inmaculada Parrilla, Department of Animal Medicine and Surgery, University of Murcia, Murcia, Spain.

Boar seminal plasma: overview and current insights on its potential role in assisted reproductive technologies in swine.

14.45-15.45: Short oral communications: *Reproductive biology and maternal environment*

M. Zhang et al. *The fate of porcine sperm CRISP2 from the perinuclear theca before and after in vitro fertilization.*

S. Ataei Nazari et al. *Alpha-linolenic acid alleviates the detrimental effect of lipopolysaccharides during in vitro ovine oocyte development.*

K. Moorkens et al. *MALDI-TOF lipidomic imaging of the oviduct after short and long-term exposure to an obesogenic diet in outbred mice.*

C. Mahé et al. *Role of secreted proteins and heparan sulfate on sperm binding to oviduct epithelial cells in cattle.*

14.50-16.25: Practitioners forum (Parallel session):

Chairpersons: DANIEL LE BOURHIS, JAN DETTERER & HELENE QUINTON

- Availability of porcine pituitary-derived FSH products on the market.

- Donor heifer management.

- Introduction to a software program designed to assess the economic value of different breeding and embryo technology strategies. *Supported by CALIER.*

15:45-16.45: POSTER SESSION 1 (even numbers) and coffee break

16.45-18.30: *Workshop I: Sperm in the female tract - what can we learn in vivo and in vitro?*

chaired by **Sean Fair**, Department of Biological Sciences, University of Limerick, Ireland.

Kieran Meade, University College Dublin, Ireland: *Insights into the multifunctional roles of bovine host defence peptides in reproduction and immunity*

Laura Abril-Parreño, University of Limerick, Ireland: *Regulation of sperm transit across the ovine cervix.*

Beatriz Fernandez-Fuertes, National Institute for Agricultural and Food Research and Technology (CSIC-INIA), Madrid, Spain: *Regulation of the uterine environment by paternal factors: Insights from the bovine model.*

20.00-24:00: Gala Dinner. Museum Speelklok.

- 08:00-18:00: Registration
SESSION 3: Chairpersons: JAN DETTERER & HELENE QUINTON
- 08.30-09.15: *Fourth invited lecture:*
Albert De Vries, Department of Animal Sciences, University of Florida, USA.
Economics of assisted reproduction in farm animals. Supported by CALIER
- 09.15-10.15: Short oral communications: *Clinical reports and supporting biotechnologies*
E. Mullaart et al. *Difference in performance between OPU and slaughterhouse derived oocytes.*
M. Hedia et al. *Follicular and systemic levels of IL-6, lipid metabolites, and oxidative stress index during the non-breeding season in mares.*
A. Bogdaniuk et al. *Seasonal variation of morphometrical characteristics of fresh and cryopreserved Saanen goat sperm.*
R. Herbicht et al. *Evaluation of a new sperm purification device for preparing bovine frozen-thawed semen for in vitro fertilization.*
- 10.15-11.15: SPONSOR AND POSTER EXHIBITION, SPONSOR BOOTH TOUR (2) & coffee break
- 11.15-12.00: General Assembly
- 12.00-13.30: Lunch/Student Lunch
SESSION 4: Chairpersons: MARJA MIKKOLA & JO LEROY
- 13.30-14.15: *Fifth invited lecture (on line presentation hosted on zoom):*
Hilary Dobson, School of Veterinary Science, University of Liverpool, Liverpool, UK.
Understanding the trade-off between the environment and fertility.
- 14.15-14.30: *Pioneer award 2022 - Hilary Dobson AETE Medalist Presentation (on line presentation hosted on zoom) introduced by Martin Sheldon (UK).*
- 14.30-15.30: Short oral communications: *Gamete environment and next generation*
I. Martínez-Rodero et al. *Evaluation of two IVP bovine embryo sexing techniques according to their ability to preserve embryo viability after vitrification/warming.*
H. Morgan et al. *Sub-optimal paternal diet accelerates pre-implantation embryo development in mice.*
I. Xhonneux et al. *Can a maternal obesogenic diet influence offspring oocyte lipid droplets and mitochondria?*
A. Fries et al. *Glyphosate affects mRNA expression pattern of bovine oocytes and belonging cumulus cells.*
- 15:30-16.30: POSTER SESSION 2 (odd numbers) and coffee break
- 16.30-18.00: Workshop II: *Rigor in the IVF laboratory.*
chaired by **Ana Sousa Lopes**, Esco Medical, Denmark.
Nuno Costa-Borges, Embryotools, Barcelona, Spain: *Optimal conditions for the culture system: a review of QC/QA recommended practices (on line presentation hosted on zoom).*
Jennifer P. Barfield, Colorado State University, USA: *Potential applications of timelapse technology in animal agriculture.*
- 18.00-18.30: Closing session: Results of the board member elections. Results for Student competition, best oral presentation and best poster presentation. Invitation to the AETE Conference 2023.
- 19.30-24:00: BBQ and farewell party in Gasthuis Leeuwenbergh. *Supported by VETOQUINOL*

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