

Conference 2016

Epigenetics and Periconception Environment

Giardini Naxos, Sicily, Italy, 26 - 29 September 2016

PROGRAMME

Day 1

Monday 26 September 2016

17:00 – 19:30 Meeting Registration

19:30 – 20:30 Welcome Reception

20:30 – 21:45 Dinner

Day 2

Tuesday 27 September 2016

07:45 – 09:00 Breakfast

09:00 – 09:15 Tiziana Brevini, University of Milano, Italy
(15:00) Ann Van Soom, University of Gent, Belgium
Welcome Address

Working Group 1: Epigenomic Tools

09:15 – 09:45 Jerome Jullien, Gurdon Institute, United Kingdom
(30:00) Sperm is epigenetically programmed to regulate gene transcription in embryos

09:45– 10:15 Pilar Coy, University of Murcia, Spain
(30:00) Unveiling and palliating the epigenetic cost of assisted reproductive technologies

10:15– 10:30 Noelia Diaz, Max Planck Institute for Molecular Biomedicine, Germany
(15:00) Characterization of the zebrafish 3D genome

10:30 – 11:30 Coffee and Poster Presentation

11:30– 11:45 Alfonso Gutierrez-Adan, Spanish National Institute for Agricultural and
(15:00) Food Research and Technology (INIA), Spain
Impaired folliculogenesis function in defective Zrsr2 mutant mice

11:45– 12:00 Jennifer Schoen, Leibniz Institute for Farm Animal Biology, Germany
(15:00) Modelling the embryo-maternal contact zone in vitro: an air-liquid interphase approach to mimic the oviduct milieu

12:00 – 12:15 Mareike Pendzialek, Martin Luther University Faculty of Medicine,
(15:00) Germany
Maternal diabetes mellitus type 1 downregulates the embryonic microRNA biogenesis in trophoblast cells

12:30 – 14:00 Lunch

16:00 – 16:30 (30:00)	Working Group 2: Periconception Environment Daniel Brison, University of Manchester, United Kingdom The impact of ART environment on embryo and child growth and health
16:30 – 17:00 (30:00)	Michael Skinner, Washington State University, United States Environmentally induced epigenetic transgenerational inheritance of disease: ancestral ghosts in your genome
17:00 – 17:15 (15:00)	Naveed Jhamat, Swedish University of Agricultural Sciences, Sweden Identification of differentially methylated regions in the genome of bovine endometrial epithelial cells (bEEC) challenged by E. coli LPS and its effect on transcription
17:15 – 17:30 (15:00)	Shaghayegh Basatvat, University of Sheffield, United Kingdom Trophoblast outgrowth rate is dependent on the co-culture epithelial cell types and mode of the culture
17:30 – 17:40 (10:00)	Alireza Fazeli, University of Sheffield, United Kingdom Dedication Address
17:40 – 18:10 (30:00)	Tom Fleming, University of Southampton, United Kingdom Embryos: how they are made and what influences their future
18:10 – 18:40 (30:00)	Discussion
18:40 – 19:40 (60:00)	Management Committee Meeting

19:45 – 21:45 **Dinner**

Day 3

Wednesday 28 September 2016

07:45 – 09:00 **Breakfast**

09:00 – 09:15 **Laszlo Tecsi, University of Sheffield, United Kingdom**
(15:00) Rules of travel reimbursements

Working Group 3: Cross-species Epigenetics, Gametogenesis and Embryogenesis

09:15 – 09:45 **Brian Dixon, University of Waterloo, Canada**
(30:00) Epigenetic control of teleost fish immunity: an ocean of possibilities

09:45 – 10:15 **Carlos Guerrero-Bosagna, Linköping University, Sweden**
(30:00) Transgenerational epigenetic inheritance: implications from humans to farm animals

10:15 – 10:30 **Francesc Piferrer, Spanish Council for Scientific Research, Spain**
(15:00) Genetic, epigenetic and transcriptomic studies aimed at improving the breeding and control of reproduction in the european sea bass and the turbot

10:30 – 11:30 **Coffee and Poster Presentation**

11:30 – 11:45 **Wim Vandenberghe, University of Antwerp, Belgium**
(15:00) Does epigenetic control of zebrafinch birdsong reveals secrets of human speech and language development?

11:45 – 12:00 **Yoav Soen, Weizmann Institute of Science, Israel**
(15:00) Adaptation by natural improvisation

12:30 – 14:00 **Lunch**

Working Group 4: Public, Periconception and Epigenome

16:00 – 16:30 (40:00)	Geert Opsomer, University of Gent, Belgium Evidence for developmental programming in dairy cattle
16:30 – 17:00 (40:00)	Bruce Whitelaw, Roslin Institute, United Kingdom Genome editing technology
17:00 – 17:15 (15:00)	Asim Qayyum Akbani, Swiss Federal Institute of Technology (ETH), Switzerland Low-dose estrogen exposure modifies the environment for embryo development by epigenetic reprogramming of the female reproductive tract
17:15 – 17:30 (15:00)	Ana Katusic-Bojanac, University of Zagreb, Croatia Negative effect of valproate on embryonic growth in vitro can be compensated by subsequent transplantation in vivo
17:30 – 17:45 (15:00)	Luca Palazzese, University of Teramo, Italy Starvation improves sheep fibroblast chromatin remodeling in spermatide-like structure
17:45 – 18:00 (15:00)	Jorge Lopez-Tello, University of Cambridge, United Kingdom Determining the role of placental endocrine zone Igf2 in the 'tug of war' over resources between mother and fetus in mice
18:00 – 18:30 (30:00)	Discussion
18:30 – 19:00 (30:00)	Alireza Fazeli, University of Sheffield, United Kingdom Eight Years of COST; from a dream to the reality
19:00 – 19:15 (15:00)	Tiziana Brevini, University of Milano, Italy Ann Van Soom, University of Gent, Belgium Farewell Address
19:45 – 23:00	Farewell Dinner

Day 4

Thursday 29 September 2016

07:45 – 09:00	Breakfast
09:00 – 16:00	Excursion