

3rd International Symposium on Embryonic Diapause
Congressi Stefano Franscini, Monte Verità, Ascona, Switzerland
2-6 June, 2019

Program

Sunday 2. June, 2019

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|---------------|---|
| 15.00 | Arrival, registration, welcome refreshment |
| 17.00 – 18.00 | Bruce Murphy , University of Montreal, Canada
Marilyn Renfree , The University of Melbourne, Australia
Katharina Jewgenow , Leibniz-Institute for Zoo and Wildlife Research, Germany
Early stage career researchers meet the expert |
| 18.00 – 19.00 | Opening lecture
Bruce Murphy , University of Montreal, Canada
Marilyn Renfree , The University of Melbourne, Australia
TBA |
| 19.00 | Dinner |

Monday 3. June, 2019

8.15 – 8.30 Welcome address by CSF and Fondazione Monte Verità

Chair: Marilyn Renfree

8.30 – 9.10 **Keynote lecture**
Jee Yeon Cha, Vanderbilt University Medical Center, USA
A role for Msx genes in mammalian embryonic diapause

9.10 – 9.40 **Susanne Ulbrich**, ETH Zurich, Switzerland
Molecular cues of diapause regulation in the European roe deer

9.40 – 10.10 **Geoff Shaw/Marilyn Renfree**, The University of Melbourne, Australia
Embryonic diapause: a developmental breather

10.10 – 10.40 *Coffee break*

10.40 – 11.10 **Thomas Hildebrandt**, Leibniz Institute for Zoo and Wildlife Research, Germany
Is diapause relevant for conservation of endangered species?

11.10 – 11.25 **Cai Kailai**, Chengdu Research Base Of Giant Panda Breeding, China
TBA

11.25 – 11.40 **Jella Wauters**, IZW Berlin, Germany
Unravelling the giant panda reproductive biology: diapause and (pseudo)pregnancy

11.40 – 11.55 **Kirsten Wilson**, University of Edinburgh, UK
Measurement of urinary estrogens and cortisol in the giant panda during delayed implantation and blastocyst reactivation

12.00 – 14.00 *Lunch*

- 14.00 – 15.30 Poster session
(*List of posters [here](#)*)
- 15.30 – 16.00 *Coffee break*
- 16.00 – 16.30 **Bruce Murphy**, University of Montreal, Canada
Embryonic diapause in carnivores: the American mink
(*Neovison vison*) as a model species
- 16.30 – 16.45 **TBA**
TBA
- 16.45 – 17.00 **Erin Curry**, Cincinnati Zoo & Botanical Garden, USA
Evaluating mink fecal proteins during embryonic diapause and
placental pregnancy for non-invasive pregnancy diagnosis
- 17.00 – 19.00 Free time
- 19.00 – 20.30 *Dinner*
- 20.30 – 21.30 Outreach event (public lecture)
Marilyn Renfree and Bruce Murphy
Pregnancy in waiting

Wednesday 5. June, 2019

Chair: Katharina Jewgenow

- 8.30 – 9.10 **Keynote lecture**
Aydan Bulut-Karsioglu, Max Planck Institute for Molecular Genetics, Germany
Chromatin regulation by growth, in proliferation and in pause
- 9.10 – 9.40 **Colin Stewart**, Institute of Medical Biology, Immunos, Singapore
LIF a multifunctional factor regulating blastocyst implantation and viability during diapause
- 9.40 – 10.10 **Shuangbo Kong**, he First Affiliated Hospital of Xiamen University, China
Proteomic and transcriptomic analysis reveals dynamic molecular changes governing embryonic diapause and reactivation for implantation in mice
- 10.10 – 10.40 *Coffee break*
- 10.40 – 11.10 **Toshihiko Fujimori**, National Institute for Basic Biology, Japan
Dormancy progression in mouse embryonic diapause
- 11.10 – 11.40 **Chris Murphy**, The University of Sydney, Australia
Coming unstuck grafecully: how uterine epithelial cells let blastocysts in
- 11.40 – 12.10 **Lukas Gaslor**, Jagiellonian University in Kraków, Poland
Transcriptome profile during diapause of mouse embryos
- 12.10 – 14.15 *Lunch*

- 14.15 – 14.45 **Stephen Frankenberg**, The University of Melbourne, Australia
Transcriptome analysis of embryonic diapause in the tammar wallaby
- 14.45 – 15.15 **Vera van der Weijden**, ETH Zurich, Switzerland
Dynamic transcriptome changes during embryonic diapause and reactivation in the embryo and endometrial epithelium of the European roe deer (*Capreolus capreolus*)
- 15.15 – 15.30 **Roberta Arena**, Jagiellonian University in Kraków, Poland
Macromolecules dynamics in the diapausing blastocyst in mouse
- 15.30 – 16.00 *Coffee break*
- 16.00 – 16.30 **Hyunjung Jade Lim**, Konkuk University, South Korea
Autophagy and FGF signaling in delayed implantation model in mice, with an emphasis on molecular signaling part
- 16.30 – 16.45 **Barbara Drews**, ETH Zurich, Switzerland
Gliding into diapause: early embryo development in roe deer (*Capreolus capreolus*)
- 16.45 – 17.00 **Anna Rüegg**, ETH Zurich, Switzerland
Diapause without arrest? - Characterization of cell proliferation in roe deer blastocysts
- 17.00 – 17.15 Poster Awards and CSF Award Ceremony
- 17.15 – 17.45 **Marilyn Renfree**, The University of Melbourne, Australia
Closing remarks: Closing lecture, Future directions for studies of diapause
- 19.00 – 22.00 Conference banquet at Monte Verità

Posters

1. An Junhui

Chengdu Research Base Of Giant Panda Breeding, China
TBA

2. Sandra Bernal

ETH Zurich, Switzerland

The roe deer oocyte transcriptome throughout the phases of embryonic arrest and reactivation

3. Anna Hankele

ETH Zurich, Switzerland

Prostaglandins in uterine fluid of roe deer

4. Vera van der Weijden

ETH Zurich, Switzerland

Uterine fluid amino acids and acylcarnitines indicate metabolic activity in European roe deer (*Capreolus capreolus*) embryos during diapause

5. Simona Bisogno

Jagiellonian University in Kraków, Poland

Evaluation of Extracellular Vesicles in the uterine fluid during embryonic diapause

6. Kinga Fic

Jagiellonian University in Kraków, Poland

Behavioral screening of offspring obtained after embryonic diapause

7. Szymon Gawęł

Jagiellonian University in Kraków, Poland

Profile of changes of the level of Treg lymphocytes in the blood and macrophages in the uterus of mice during embryonic diapause.

8. Joanna Rudnicka

Jagiellonian University in Kraków, Poland

Quantitative imaging of lipids in oocytes obtained from diapausing mammals

9. Federica Zacchini

Jagiellonian University in Kraków, Poland

Post-natal growth and fertility of mouse offspring developed following embryonic diapause