



University of  
Zurich<sup>UZH</sup>

URPP Human Reproduction  
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# 2nd Zuri-Repro meeting

THURSDAY, 26.06.2025



This event is possible thanks to the support of:



University of  
Zurich<sup>UZH</sup>

URPP Human Reproduction  
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# 2nd Zuri-Repro meeting

Thursday, 26.06.2025



## Location:

Irchel Campus → Lecture hall in building Y17, floor M (Room Y17-M05). See map at the end of the program.

## Program:

### Session 1:

12.30 – Opening

12.40 – **Prof. Anton Wutz** (ETHZ). *Methodology and Application for mouse stem cell derived gametes.*

13.10 – **Jasmin Galli** (PhD Student, Kowalewski Lab - UZH). *Extracellular vesicles during decidualization: Insights from a dog uterine stromal cell model.*

13.25 – **David Taborsky** (PhD Student, Sendoel Lab - UZH). *Single-cell CRISPR screen uncovers putative translational regulators of mesodermal lineage commitment in gastruloids.*

13.40 – **Rachel Manfre** (PhD Student, Jaric Lab - UZH). *AI-Driven Assessment of Reproductive Stages in Laboratory Rodents.*

14.00 – Flash talks

**Alina Astourian** (Scientist, Spalinger Lab - UZH-USZ). *A Phenotypic Analysis of Natural Killer Cells in Endometriosis.*

**Schaffner Michèle** (Transgenic Technician, EPIC - ETHZ). *Animal Scientific Services of ETH Phenomics Center.*

### Coffee Break and Poster Session:

14.10-15.30 – Seminar room in building Y36, floor L (Room Y36-L08). See map at the end of the program.

### Session 2:

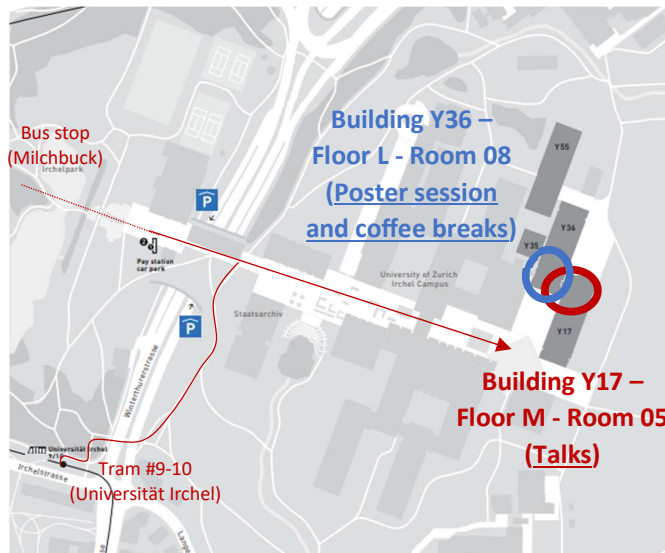
15.30 – **Prof. Isabelle Mansuy** (UZH-ETHZ). *Paternal legacy: Response of the germline genome and epigenome to early life adversity.*

- 16.00 – **Alvaro Lopez Valiñas** (Postdoc, Bauersachs Lab - UZH). *Single-Cell RNA-Sequencing Analysis of the Infundibulum, Ampulla, and Isthmus to Characterize Cell Populations in the Post-Ovulation Bovine Oviduct.*
- 16.15 – **Nataliia Shapovalova** (PhD Student, Buch Lab - UZH). *Optimizing quality control of cryopreserved mouse sperm.*
- 16.30 – **Vincent Fischer** (PhD Student, Gapp Lab - ETHZ). *Intergenerational effects of stress-Genetic or Non-Genetic?*
- 16.45 – Flash talks
- Mikhael Poirier** (Postdoc, Cavazza Lab - UZH-USZ). *Cheap and single-cell: counting chromosomes in early blastomeres and blastocysts using combinatorial indexing.*
- Ece Naz Kivanc** (PhD Student, Pelkmans Lab - UZH). *Exploring the Role of Cellular Heterogeneity on Early Developmental Cell Fate Decisions.*
- 17.00 – **Prof. Mariusz Pawel Kowalewski** (UZH). *Exploring Reproductive Frontiers: Morphofunctional Aspects of the Canine Placenta and Hypoxia-Regulated Mechanisms in Steroidogenic Cells.*
- 17.30 – Closing remarks + poster prize

[Networking Apéro:](#)

17.45 – Seminar room in building Y36, floor L (Room Y36-L08).

**Map:**



**Organizers:**

Eleni Malama (UZH) - Katharina Gapp (ETHZ) - Leonardo Zingler Herrero (UZH) - Michèle Schaffner (EPIC-ETHZ) - Thomas Hennek (LASC-UZH) - Tommaso Cavazza (USZ – UZH – URPP H2R)

## Poster presentations:

- 1) **Vissarion Efthymiou** (Senior Scientist, Wolfrum Lab - ETHZ)  
*Revealing a Novel Crosstalk between Brown Adipocytes and Mature Sperm via Small Non-Coding RNAs.*
- 2) **Markus Schliffka** (Postdoc, Cavazza and Gapp Labs - UZH/USZ/ETHZ)  
*In vitro VS in vivo: uncovering the neglected role of estrogens in preimplantation embryogenesis.*
- 3) **Martina Gübeli** (PhD Student, Kowalewski Lab - UZH)  
*Targeted Hypoxia-Inducible Factor 1 $\alpha$  Stabilization During In Vitro Maturation of Bovine Cumulus-Oocyte Complexes.*
- 4) **Ying Cai** (PhD Student, Cavazza Lab - UZH/USZ)  
*A cell cycle-dependent mechanism performs quality control in mammalian embryos.*
- 5) **Selina Frei** and **Rosie Longster** (PhD Student and Msc Student, Gapp Lab - ETHZ)  
*Impact of acute footshock stress on male mice and their offspring*
- 6) **Sybilla Rzaca** (PhD Student, Kowalewski Lab - UZH)  
*Effect of hypoxia and HIF1 $\alpha$  on cholesterol storage and transport in granulosa cells.*
- 7) **Martino Ugolini** (Postdoc, Cavazza Lab - UZH/USZ)  
*How does a zygote find its center?*
- 8) **Luiz Antonio Berto Gomes** (PhD Student, Kowalewski Lab - UZH)  
*Hypoxia and HIF1 $\alpha$  Regulation Cooperate to Modulate Cholesterol Metabolism in Leydig Cells.*
- 9) **Olivia Smith** (Postdoc, Kowalewski Lab - UZH)  
*Oxygen Depletion and HIF1 $\alpha$  Regulate Steroidogenesis in Granulosa Cells by Affecting Significant Players in Cholesterol Provision: A Multi-Omics Approach.*
- 10) **Leonardo Bonaventura Zingler Herrero** (PhD student, Mansuy Lab - UZH/ETHZ)  
*Using spermatogonial stem cell transplantation to study epigenetic inheritance.*
- 11) **Anna Chamot** (PhD student, Mansuy Lab - UZH/ETHZ)  
*Molecular persistence across systems: From brain to germline, can RNA be long-lived?*
- 12) **Kudzaishe Adwell Mushati** (PhD Student, Kowalewski Lab - UZH)  
*Modulation of Uterine Responses in Dogs: The Divergent Effects of Semen and Embryo Signals.*