

## Cryopreservation and Other Preservation Approaches for Animal Models

September 2024-May 2025





## Session 4: Cryopreservation and Other Long-Term Preservation of Rodent Models in Biomedical Research

October 16, 2024 1:00 p.m. – 5:00 p.m. EDT

1:00 p.m. – 1:10 p.m. Opening Remarks

Oleg Mirochnitchenko, Ph.D., Office of Research Infrastructure Programs, National

Institutes of Health

Yuksel Agca, D.V.M., Ph.D., M.S., University of Missouri

Presentations: Part 1

Moderator: Yuksel Agca, D.V.M., Ph.D., M.S., University of Missouri

1:10 p.m. – 1:35 p.m. Robert Taft, Ph.D., The Jackson Laboratory

Challenges and Opportunities Associated with Rodent Germplasm Cryobanking

1:35 p.m. – 2:00 p.m. Toru Takeo, Ph.D., Kumamoto University

Cryopreservation of Rodent Sperm: Efficiencies, Reproducibility, and Needs

2:00 p.m. - 2:05 p.m. Break

**Presentations: Part 2** 

Moderator: Thomas Saunders, Ph.D., University of Michigan

2:05 p.m. – 2:25 p.m. Yuksel Agca, D.V.M., Ph.D., M.S., University of Missouri

Cryopreservation of Rodent Oocytes: Efficiencies, Reproducibility, and Needs

2:25 p.m. – 2:45 p.m. Simon Tröder, Ph.D., University of Cologne

SEcuRe: Adapting Proven Approaches for Affordable and Simplified Mouse In Vitro

Fertilization

2:45 p.m. – 3:05 p.m. Willem Wolkers, Ph.D., University of Veterinary Medicine Hannover

High-Temperature Storage of Rodent Sperm

3:05 p.m. - 3:10 p.m. Break

**Presentations: Part 3** 

Moderator: Robert Taft, Ph.D., The Jackson Laboratory

3:10 p.m. – 3:30 p.m. Ali Eroglu, D.V.M., Ph.D., Augusta University

Cryopreservation-Induced Epigenetic Alterations: A Neglected Aspect

3:30 p.m. – 3:50 p.m. Marcello Raspa, Ph.D., European Mouse Mutant Archive

Distribution of Cryopreserved Mouse Spermatozoa in Dry Ice: A Multicentric Study

3:50 p.m. – 4:10 p.m. Thomas Saunders, Ph.D., University of Michigan

Rodent Germplasm Cryopreservation and Assisted Reproduction: From a Transgenic Rodent

Model Core Facility Perspective

4:10 p.m. – 4:15 p.m. Break

4:15 p.m. – 5:00 p.m. Group Discussion

Moderator: Yuksel Agca, D.V.M., Ph.D., M.S., University of Missouri

Panelists: All committee members and speakers

5:00 p.m. Closing Remarks

Oleg Mirochnitchenko, Ph.D., Office of Research Infrastructure Programs, NIH